

## ADVION® COCKROACH GEL BAIT

Date: 5/19/2017  
Replaces: 4/13/2017

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® COCKROACH GEL BAIT**

Product No.: A20379A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Skin Sensitizer: Category 1B

Signal Word (OSHA): Warning

Hazard Statements: May cause an allergic skin reaction

Hazard Symbols:



Precautionary Statements: Avoid breathing mist, vapors, spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection.  
If on skin: Wash with plenty of soap and water.  
See Section 4 First Aid Measures.  
If skin irritation or rash occurs: Get medical advice.  
Wash contaminated clothing before reuse.  
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name           | Common Name             | CAS Number   | Concentration |
|-------------------------|-------------------------|--------------|---------------|
| Other inert ingredients | Other inert ingredients | Trade Secret | 99.4%         |

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|                                                                                                                                                                     |                      |             |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------|
| methyl (4aS)-7-chloro-2,5-dihydro-2-<br>[[(methoxycarbonyl)[4-<br>(trifluoromethoxy)phenyl]amino]carbonyl]in<br>deno[1,2-e][1,3,4]oxadiazine-4a(3H)-<br>carboxylate | Indoxacarb Technical | 173584-44-6 | 0.6% |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------|

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

**Ingestion:** If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Eye Contact:** If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Skin Contact:** If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Inhalation:** If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Allergic skin reaction

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g.

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commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

**7. HANDLING AND STORAGE**

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Occupational Exposure Limits:

| Chemical Name           | OSHA PEL        | ACGIH TLV       | Other                                           | Source         |
|-------------------------|-----------------|-----------------|-------------------------------------------------|----------------|
| Other inert ingredients | Not Applicable  | Not Applicable  | Not Applicable                                  | Not Applicable |
| Indoxacarb Technical    | Not Established | Not Established | 1 mg/m <sup>3</sup> 8hr & 12hr TWA (respirable) | Manufacturer   |

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellow gel

Odor: None

Odor Threshold: Not Available

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pH: 6.08  
Melting point/freezing point: Not Available  
Initial boiling point and boiling range: Not Available  
Flash Point (Test Method): Not Available  
Flammable Limits (% in Air): Not Available  
Flammability: Not Available  
Vapor Pressure: Indoxacarb Technical Not Available  
Vapor Density: Not Available  
Relative Density: 1.0755 g/ml @ 68°F (20°C)  
Solubility (ies): Indoxacarb Technical Not Available  
Partition coefficient: n-octanol/water: Not Available  
Autoignition Temperature: Not Available  
Decomposition Temperature: Not Available  
Viscosity: Not Available  
Other: Not Available

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.  
Chemical stability: Stable under normal use and storage conditions.  
Possibility of hazardous reactions: Will not occur.  
Conditions to Avoid: None known  
Incompatible materials: None known.  
Hazardous Decomposition Products: Not Available

### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Rash, redness or itching

Delayed, immediate and chronic effects of exposure: Allergic skin reaction

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

|              |                                |                          |
|--------------|--------------------------------|--------------------------|
| Ingestion:   | Oral (LD50 Rat) :              | > 5000 mg/kg body weight |
| Dermal:      | Dermal (LD50 Rat) :            | > 5000 mg/kg body weight |
| Inhalation:  | Inhalation (LC50 Female Rat) : | > 5.5 mg/l air - 4 hours |
| Eye Contact: | Non-Irritating (Rabbit)        |                          |



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Skin Contact: Non-Irritating (Rabbit)  
Skin Sensitization: A skin sensitizer (Guinea Pig)

### Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

### Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Did not cause genetic damage in animals.

| Chemical Name                                                                                                                                                    | NTP/IARC/OSHA Carcinogen |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Other inert ingredients                                                                                                                                          | No                       |
| methyl (4aS)-7-chloro-2,5-dihydro-2-<br>[[[(methoxycarbonyl)[4-<br>(trifluoromethoxy)phenyl]amino]carbonyl]inden<br>o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate | No                       |

### Other Toxicity Information

None

### Toxicity of Other Components

Other inert ingredients  
Not Applicable

### Target Organs

#### Active Ingredients

Indoxacarb Technical: Nervous system

#### Inert Ingredients

Other inert ingredients: Not Applicable

## 12. ECOLOGICAL INFORMATION

### Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

### Environmental Fate

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### Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

### 14. TRANSPORT INFORMATION

#### DOT Classification

Ground Transport - NAFTA

Not regulated

#### Comments

Water Transport - International

Not regulated

Air Transport

Not regulated

### 15. REGULATORY INFORMATION

#### Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

#### EPA Registration Number(s):

100-1484

#### EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

#### CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

#### RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

#### TSCA Status:

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Exempt from TSCA, subject to FIFRA

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 2  
Flammability: 1  
Instability: 0

#### HMIS Hazard Ratings

Health: 2  
Flammability: 1  
Physical Hazard: 0

|   |          |
|---|----------|
| 0 | Minimal  |
| 1 | Slight   |
| 2 | Moderate |
| 3 | Serious  |
| 4 | Extreme  |
| * | Chronic  |

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/25/2013

Revision Date: 5/19/2017

Replaces: 4/13/2017

Section(s) Revised: 2,4,11,16

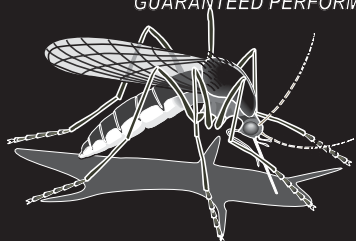
The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

**Dr. T's**  
Nature Products

THE REPELLENT CO.

Also  
Manufacturers  
of These  
Unique Repellents

SNAKE-A-WAY  
SNAKE GUARD GLUE TRAP  
MOLE/VOLE CONTROL  
COBWEB ELIMINATOR  
RID-A-CRITTER  
FLEA REPELLENT  
RAT-A-WAY  
DOG & CAT REPELLENT  
DEER & RABBIT REPELLENT (AG.)  
BAT-A-WAY  
GUARANTEED PERFORMANCE



# MOSQUITO & GNAT FLYING INSECT REPELLENT

**Dr. T's**  
Nature Products  
THE REPELLENT CO.



**NO POISONS**  
TREATS UP TO 4,000 SQ. FT.

**LAST 2 TO 3 WEEKS**

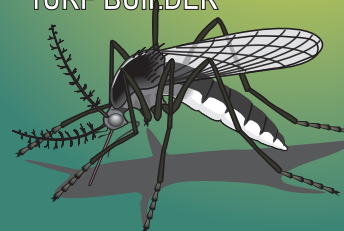
**SOIL CONDITIONER**  
**PLEASANT AROMA**

USE FOR: YARD PARTIES, OUT  
DOOR WEDDINGS, POOL  
PARTIES, CAMPING, SCHOOLS,  
PLAY GROUNDS, GOLF DRIVING  
RANGES, SOCCER FIELDS,  
LITTLE LEAGUE PARKS, AND ANY  
WHERE PEOPLE PLAY OR WORK.

**Dr. T's**  
Nature Products  
THE REPELLENT CO.

# MOSQUITO & GNAT FLYING INSECT REPELLENT

- CONTAINS THREE NATURAL OILS
- CONTAINS NO POISONS
- NON TOXIC AND BIO-DEGRADABLE
- LAST UP TO 3 WEEKS
- PLEASANT ODOR, NO MIXING OR WATER  
OUTLET NEEDED
- EXCELLENT SOIL ENHANCER,  
TURF BUILDER



This is a dry granular product easily applied from its sprinkler cap. The product can be used around homes, lawns, pool and patio areas, water gardens, tennis courts, picnic and campsites. It is an ideal product to be applied before outdoor weddings, pool and patio parties, around schools and cookouts.

**DIRECTIONS FOR USE:** Lightly sprinkle **Mosquito and Gnat Repellent** over entire area to be occupied. This container will cover approximately 3,000-4,000 square feet. For maximum results apply product 12 hours before desired area is to be occupied. It is best to apply product early a.m. or late p.m. when fewer breezes are present. Do not water area with sprinkler for 48 hours after application. This product will not harm plants and is an excellent soil enhancer and turf builder. **When applied as directed this product is safe to humans, pets, and plants.** Last approximately 2 to 3 weeks.

## STORAGE AND DISPOSAL

Store in original container in a cool dry place that is well ventilated. Do not use empty container, rinse thoroughly, securely wrap in newspaper and discard in trash.

**DR. T'S NATURE PRODUCTS, INC**

**PO BOX 682**

**PELHAM, GA 31779**

Email: [drts@rose.net](mailto:drts@rose.net)

Website: [www.ANIMALREPELLENTS.com](http://www.ANIMALREPELLENTS.com)

CAUTION  
KEEP OUT OF REACH OF CHILDREN

Active Ingredients:  
Lemon Grass Oil: 1.12%  
Peppermint Oil: .08%  
Garlic Oil: .40%  
TOTAL: 1.6%  
Inert Ingredients: 98.40%  
Attapulgitic hormone clay  
Weight: 5lbs (2.27 kg)

# SAFETY DATA SHEET

## CB-80 Insecticide

SDS # : 6545-A  
Revision date: 2021-01-29  
Format: NA  
Version 2.02



### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

**Product Name** CB-80 Insecticide

**Formula code** 50000550

#### Other means of identification

**Product Code(s)** 6545-A

**Synonyms** Pyrethrins, PIPERONYL BUTOXIDE: Butylcarbityl(6-propylpiperonyl) ether, 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

**Active Ingredient(s)** Pyrethrins, Piperonyl Butoxide

#### Recommended use of the chemical and restrictions on use

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label.

#### Supplier Address

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
SDS-Info@fmc.com (E-Mail General Information)

#### Emergency telephone number

Medical Emergencies :  
1 800 / 331-3148 (U.S.A. & Canada)  
1 651 / 632-6793 (All Other Countries - Collect)

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

### 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                  |            |
|--------------------------------------------------|------------|
| Acute toxicity - Inhalation (Dusts/Mists)        | Category 4 |
| Serious eye damage/eye irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable Aerosols                               | Category 2 |

**GHS Label elements, including precautionary statements****EMERGENCY OVERVIEW****Warning****Hazard Statements**

H332 - Harmful if inhaled  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H223 - Flammable aerosol  
H229 - Pressurized container: May burst if heated

**Precautionary Statements - Prevention**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Do not pierce or burn, even after use  
P280 - Wear eye protection/ face protection

**Precautionary Statements - Response**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/ attention  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
P331 - Do NOT induce vomiting

**Precautionary Statements - Storage**

P405 - Store locked up  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

**Precautionary Statements - Disposal**

P501 - Dispose of contents/container according to label directions

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name      | CAS-No  | Weight % |
|--------------------|---------|----------|
| 1,1-Difluoroethane | 75-37-6 | 50-70    |

|                                           |            |       |
|-------------------------------------------|------------|-------|
| Isopropanol                               | 67-63-0    | 15-30 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 1-5   |
| Piperonyl butoxide                        | 51-03-6    | 4     |
| Pyrethrins                                | 8003-34-7  | 0.5   |

Synonyms are provided in Section 1.

#### 4. FIRST AID MEASURES

|                                                                                             |                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                                                                          | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.              |
| <b>Skin Contact</b>                                                                         | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.                                                                                    |
| <b>Inhalation</b>                                                                           | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                 |
| <b>Ingestion</b>                                                                            | Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting or give anything by mouth to an unconscious person. |
| <b>Most important symptoms and effects, both acute and delayed</b>                          | Central nervous system effects.                                                                                                                                                                                                                        |
| <b>Indication of immediate medical attention and special treatment needed, if necessary</b> | Treat symptomatically.                                                                                                                                                                                                                                 |

#### 5. FIRE-FIGHTING MEASURES

|                                                              |                                                                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.               |
| <b>Small Fire</b>                                            | Dry chemical. Carbon dioxide (CO <sub>2</sub> ).                                                                      |
| <b>Large Fire</b>                                            | Water spray. Foam.                                                                                                    |
| <b>Unsuitable extinguishing media</b>                        | Avoid heavy hose streams.                                                                                             |
| <b>Specific Hazards Arising from the Chemical</b>            | Contents under pressure.                                                                                              |
| <b>Hazardous Combustion Products</b>                         | None known.                                                                                                           |
| <b><u>Explosion data</u></b>                                 |                                                                                                                       |
| <b>Sensitivity to Mechanical Impact</b>                      | No information available.                                                                                             |
| <b>Sensitivity to Static Discharge</b>                       | No information available.                                                                                             |
| <b>Protective equipment and precautions for firefighters</b> | Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus and full protective gear. |

#### 6. ACCIDENTAL RELEASE MEASURES

|                             |                                                                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b> | Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment. |
| <b>Other</b>                | For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1                                                                                                                                                                                               |



"Product and Company Identification" above.

|                                  |                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Precautions</b> | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.                                                                                                                                                                                                              |
| <b>Methods for Containment</b>   | Prevent further leakage or spillage if safe to do so.                                                                                                                                                                                                                                                                                  |
| <b>Methods for cleaning up</b>   | Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed at a waste water treatment plant. |

## 7. HANDLING AND STORAGE

|                              |                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>              | Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 130°F (56°C). Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. |
| <b>Storage</b>               | Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.                                                                                                       |
| <b>Packaging material</b>    | Must only be kept in original packaging.                                                                                                                                                                                                                                                                 |
| <b>Incompatible products</b> | Strong oxidizing agents. Bases. Powdered earth metals.                                                                                                                                                                                                                                                   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Chemical name                                                | ACGIH TLV                          | OSHA PEL                                                                                    | NIOSH                                                                                                         | Mexico                                                                                     |
|--------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Isopropanol<br>(67-63-0)                                     | STEL 400 ppm<br>TWA: 200 ppm       | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>                                                  | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> | Mexico: TWA 200 ppm<br>Mexico: STEL 400 ppm                                                |
| Pyrethrins<br>(8003-34-7)                                    | TWA: 5 mg/m <sup>3</sup>           | TWA: 5 mg/m <sup>3</sup>                                                                    | IDLH: 5000 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>                                                      | Mexico: TWA 5 mg/m <sup>3</sup>                                                            |
| Chemical name                                                | British Columbia                   | Quebec                                                                                      | Ontario TWAEV                                                                                                 | Alberta                                                                                    |
| Isopropanol<br>(67-63-0)                                     | TWA: 200 ppm<br>STEL: 400 ppm      | TWA: 400 ppm<br>TWA: 985 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1230 mg/m <sup>3</sup> | TWA: 200 ppm<br><br>STEL: 400 ppm                                                                             | TWA: 200 ppm<br>TWA: 492 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 984 mg/m <sup>3</sup> |
| Petroleum distillates,<br>hydrotreated light<br>(64742-47-8) | TWA: 200 mg/m <sup>3</sup><br>Skin | -                                                                                           | -                                                                                                             | -                                                                                          |
| Pyrethrins<br>(8003-34-7)                                    | TWA: 5 mg/m <sup>3</sup>           | TWA: 5 mg/m <sup>3</sup>                                                                    | TWA: 5 mg/m <sup>3</sup>                                                                                      | TWA: 5 mg/m <sup>3</sup>                                                                   |

### Appropriate engineering controls

|                             |                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering measures</b> | Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Individual protection measures, such as personal protective equipment

|                            |                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Eye/Face Protection</b> | If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. |
|----------------------------|------------------------------------------------------------------------------------------------------------|



|                                 |                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin and Body Protection</b> | Wear long-sleeved shirt, long pants, socks, and shoes.                                                                                                                                                                                                                                                            |
| <b>Hand Protection</b>          | Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.                                                                                                                                             |
| <b>Respiratory Protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.                                                                                                    |
| <b>Hygiene measures</b>         | Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry. |
| <b>General information</b>      | If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied                                                                                                                                     |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| <b>Appearance</b>                   | Yellow, Aerosolized liquid                          |
| <b>Physical State</b>               | Liquid Aerosol                                      |
| <b>Color</b>                        | Yellow                                              |
| <b>Odor</b>                         | Pyrethrins                                          |
| <b>Odor threshold</b>               | No information available                            |
| <b>pH</b>                           | No information available                            |
| <b>Melting point/freezing point</b> | Not applicable                                      |
| <b>Boiling Point/Range</b>          | No information available                            |
| <b>Flash point</b>                  | 14.4 °C / 58 °F (Flame extension 5" - no flashback) |
| <b>Evaporation Rate</b>             | No information available                            |
| <b>Flammability (solid, gas)</b>    | No information available                            |
| <b>Flammability Limit in Air</b>    |                                                     |
| Upper flammability limit:           | No information available                            |
| Lower flammability limit:           | No information available                            |
| <b>Vapor pressure</b>               | No information available                            |
| <b>Vapor density</b>                | No information available                            |
| <b>Relative density</b>             | 7.29 lb/gal (0.874 g/cm <sup>3</sup> )              |
| <b>Specific gravity</b>             | 0.8746                                              |
| <b>Water solubility</b>             | No information available                            |
| <b>Solubility in other solvents</b> | No information available                            |
| <b>Partition coefficient</b>        | No information available                            |
| <b>Autoignition temperature</b>     | No information available                            |
| <b>Decomposition temperature</b>    | No information available                            |
| <b>Viscosity, kinematic</b>         | No information available                            |
| <b>Viscosity, dynamic</b>           | No information available                            |
| <b>Explosive properties</b>         | No information available                            |
| <b>Oxidizing properties</b>         | No information available                            |
| <b>Molecular weight</b>             | No information available                            |
| <b>Bulk density</b>                 | No information available                            |

## 10. STABILITY AND REACTIVITY

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| <b>Reactivity</b>                         | None under normal use conditions.                                 |
| <b>Chemical Stability</b>                 | Stable under recommended storage conditions.                      |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.                                     |
| <b>Hazardous polymerization</b>           | Hazardous polymerization does not occur.                          |
| <b>Conditions to avoid</b>                | Keep away from open flames, hot surfaces and sources of ignition. |

**Incompatible materials** Strong oxidizing agents. Bases. Powdered earth metals.

**Hazardous Decomposition Products** Carbon oxides (COx), Hydrogen fluoride, Carbonyl fluoride.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

**LD50 Oral** 2,370 mg/kg (rat)  
**LD50 Dermal** > 2000 mg/kg (rabbit)  
**LC50 Inhalation (dust)** 2.5 mg/L 4 hr (rat)

**Eye Contact** Slightly or non-irritating (rabbit)  
**Skin Contact** Slightly or non-irritating (rabbit)  
**Sensitization** May cause sensitization by skin contact

| Chemical name                                                | LD50 Oral                                    | LD50 Dermal                                                               | LC50 Inhalation (vapor)               |
|--------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|---------------------------------------|
| Isopropanol<br>(67-63-0)                                     | = 1870 mg/kg ( Rat )                         | = 4059 mg/kg ( Rabbit )                                                   | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |
| Petroleum distillates,<br>hydrotreated light<br>(64742-47-8) | > 5000 mg/kg ( Rat )                         | > 2000 mg/kg ( Rabbit )                                                   | > 5.2 mg/L ( Rat ) 4 h                |
| Piperonyl butoxide<br>(51-03-6)                              | = 4570 mg/kg ( Rat ) = 6150<br>mg/kg ( Rat ) | = 1880 mg/kg ( Rabbit ) > 7950<br>mg/kg ( Rat )                           | > 5.9 mg/L ( Rat ) 4 h                |
| Pyrethrins<br>(8003-34-7)                                    | = 200 mg/kg ( Rat )                          | = 1350 mg/kg ( Rat ) = 2060<br>mg/kg ( Rabbit ) = 300 mg/kg<br>( Rabbit ) | = 3.4 mg/L ( Rat ) 4 h                |

### Information on toxicological effects

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Mutagenicity** Piperonyl butoxide ether may affect mammalian liver microsomal detoxification enzymes.  
**Carcinogenicity** n-Octyl bicycloheptene dicarboximide was negative in a chromosome aberration assay,  
Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).  
**Reproductive toxicity** No information available.  
**Developmental toxicity** Isopropanol has been reported to cause teratogenicity in laboratory animals.  
**STOT - single exposure** Not classified.  
**STOT - repeated exposure** Not classified.  
**Target organ effects** Mice fed 0.3 or 0.9% piperonyl butoxide in the diet for 20 days had increased liver weight and other signs of liver toxicity. Male rats given up to 2.4% of piperonyl butoxide in the diet for up to 12 weeks had clinical and histologic signs of liver damage; the highest dose group showed preneoplastic changes, including enlargement of hepatocyte nuclei and multinucleated cells. Kidney damage was also seen.

**Aspiration hazard** The product does not present an aspiration pneumonia hazard.

| Chemical name                 | ACGIH | IARC     | NTP | OSHA |
|-------------------------------|-------|----------|-----|------|
| Isopropanol<br>67-63-0        |       | Group 3  |     |      |
| Piperonyl butoxide<br>51-03-6 |       | Group 3  |     |      |
| Pyrethrins<br>8003-34-7       |       | Group 2A |     |      |

### Legend:

**IARC (International Agency for Research on Cancer)**  
Group 2A - Probably Carcinogenic to Humans  
Group 3 - Not classifiable as to its carcinogenicity to humans

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Piperonyl butoxide (51-03-6) |          |                |       |        |
|------------------------------|----------|----------------|-------|--------|
| Active Ingredient(s)         | Duration | Species        | Value | Units  |
| Piperonyl Butoxide           | LC50     | Fish           | 3.94  | ppm    |
|                              | LD50     | Bee            | 25    | µg/bee |
|                              | LD50     | Bobwhite quail | >2250 | mg/kg  |
|                              | LD50     | Mallard duck   | >5620 | ppm    |

| Chemical name                                              | Toxicity to algae                                                                                       | Toxicity to fish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Toxicity to daphnia and other aquatic invertebrates |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Piperonyl butoxide<br>51-03-6                              |                                                                                                         | 96 h LC50: = 7.07 mg/L<br>(Oncorhynchus mykiss) semi-static                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |
| Petroleum distillates, hydrotreated<br>light<br>64742-47-8 |                                                                                                         | 96 h LC50: = 2.2 mg/L (Lepomis macrochirus) static<br>96 h LC50: = 2.4 mg/L (Oncorhynchus mykiss) static<br>96 h LC50: = 45 mg/L (Pimephales promelas) flow-through                                                                                                                                                                                                                                                                                                                                         | 96 h LC50: = 4720 mg/L<br>(Daphnia magna)           |
| Isopropanol<br>67-63-0                                     | 72 h EC50: > 1000 mg/L<br>(Desmodesmus subspicatus) 96 h<br>EC50: > 1000 mg/L (Desmodesmus subspicatus) | 96 h LC50: = 11130 mg/L<br>(Pimephales promelas) static<br>96 h LC50: = 9640 mg/L (Pimephales promelas) flow-through<br>96 h LC50: > 1400000 µg/L (Lepomis macrochirus)                                                                                                                                                                                                                                                                                                                                     | 48 h EC50: = 13299 mg/L (Daphnia magna)             |
| Pyrethrins<br>8003-34-7                                    |                                                                                                         | 96 h LC50: 0.003 - 0.0046 mg/L<br>(Lepomis macrochirus) flow-through<br>96 h LC50: 0.0031 - 0.0038 mg/L<br>(Oncorhynchus mykiss) flow-through<br>96 h LC50: 0.02 - 0.03 mg/L (Oncorhynchus mykiss) static<br>96 h LC50: 0.0322 - 0.0472 mg/L (Lepomis macrochirus) static<br>96 h LC50: 0.0425 - 0.121 mg/L (Pimephales promelas) flow-through<br>96 h LC50: 0.224 - 0.458 mg/L (Pimephales promelas) static<br>96 h LC50: = 0.054 mg/L (Oncorhynchus mykiss) 96 h LC50: = 0.074 mg/L (Lepomis macrochirus) |                                                     |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated containers and packages** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT** Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

**CB-80 Insecticide**

**SDS # :** 6545-A  
**Revision date:** 2021-01-29  
**Version** 2.02

**UN/ID no** UN1950  
**Proper Shipping Name** Aerosols, flammable  
**Hazard class** 2.1  
**Description** UN1950, Aerosols, flammable, 2.1, Limited Quantity

**TDG** Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

**UN/ID no** UN1950  
**Proper Shipping Name** Aerosols, flammable  
**Hazard class** 2.1  
**Description** UN1950, Aerosols, flammable, 2.1, Limited Quantity

**ICAO/IATA** Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

**UN/ID no** UN1950  
**Proper Shipping Name** Aerosols, flammable  
**Hazard class** 2.1  
**Description** UN1950, Aerosols, flammable, 2.1, Limited Quantity

**IMDG/IMO** Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

**UN/ID no** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard class** 2.1  
**EmS No.** F-D, S-U  
**Description** UN1950, Aerosols, 2.1, Limited Quantity

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name                | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|------------------------------|---------|----------|-------------------------------|
| Isopropanol - 67-63-0        | 67-63-0 | 15-30    | 1.0                           |
| Piperonyl butoxide - 51-03-6 | 51-03-6 | 4        | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|                                          |     |
|------------------------------------------|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic health hazard</b>             | Yes |
| <b>Fire hazard</b>                       | Yes |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical name           | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Pyrethrins<br>8003-34-7 | 1 lb                        |                        |                           |                            |

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances |
|---------------|--------------------------|--------------------------------|
|---------------|--------------------------|--------------------------------|

**CB-80 Insecticide**

SDS # : 6545-A

Revision date: 2021-01-29

Version 2.02

|                         |                  |            |
|-------------------------|------------------|------------|
|                         |                  | <b>RQs</b> |
| Pyrethrins<br>8003-34-7 | 1 lb<br>0.454 kg |            |

**FIFRA Information**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Contains petroleum distillates. Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Prolonged or repeated contact with the skin may cause allergic reactions in some individuals

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| 1,1-Difluoroethane<br>75-37-6 | X          | X             |              |
| Isopropanol<br>67-63-0        | X          | X             | X            |
| Piperonyl butoxide<br>51-03-6 | X          |               |              |
| Pyrethrins<br>8003-34-7       | X          | X             | X            |

**International Inventories**

| Chemical name                                              | TSCA<br>(United States) | DSL<br>(Canada) | EINECS/ELINCS<br>(Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL (Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|------------------------------------------------------------|-------------------------|-----------------|---------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| 1,1-Difluoroethane<br>75-37-6                              | X                       | X               | X                         | X               | X                | X            | X                      | X                   |
| Isopropanol<br>67-63-0                                     | X                       | X               | X                         | X               | X                | X            | X                      | X                   |
| Petroleum distillates,<br>hydrotreated light<br>64742-47-8 | X                       | X               | X                         |                 | X                | X            | X                      | X                   |
| Piperonyl butoxide<br>51-03-6                              | X                       | X               | X                         | X               | X                | X            | X                      | X                   |
| Pyrethrins<br>8003-34-7                                    |                         | X               | X                         |                 | X                | X            | X                      | X                   |

**CANADA**

Not applicable

**16. OTHER INFORMATION**

|             |                          |                       |                          |                              |
|-------------|--------------------------|-----------------------|--------------------------|------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 2  | <b>Flammability</b> 3 | <b>Instability</b> 0     | <b>Special Hazards</b> -     |
| <b>HMIS</b> | <b>Health Hazards</b> 2* | <b>Flammability</b> 3 | <b>Physical hazard</b> 0 | <b>Personal Protection</b> X |

\*Indicates a chronic health hazard.

**NFPA/HMIS Ratings Legend**

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Revision date:** 2021-01-29  
**Reason for revision:** SDS sections updated.

**Disclaimer**

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**Prepared By:**

FMC Corporation

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**End of Safety Data Sheet**

# Advance®

## Granular Carpenter Ant Bait

**KILLS:** Carpenter Ants and many common varieties of ants such as Acrobat, Argentine, Bigheaded, Crazy, Field, Fire, Harvester, Lasius, Little Black, Odorous House, Pavement, Pharaoh, and Thief Ants

**FOR USE IN AND AROUND:** Commercial and Other Structures, Food Storage Areas, Golf Courses, Homes, Hotels, Inedible Product Areas of Meat Packing Plants, Lawns, Motels, Non-food/feed Areas of Commercial Buildings, Non-occupied Patient Areas of Hospitals and Nursing Homes, Parks, Residential Areas, Schools, Supermarkets, Turf, and Warehouses

**ACTIVE INGREDIENT:**

Abamectin\* B, ..... 0.011%

**OTHER INGREDIENTS:** ..... 99.989%

**TOTAL:** ..... 100.000%

\*U.S. Pat. 4,310,519

EPA Reg. No. 499-370 EPA Est. No. 7969-MO-1

### KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to full label for **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty,** and state-specific use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night  
1-800-832-HELP (4357).**



8 04338 11965 2

**NET WEIGHT: 8 ounces**

**BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709**

81098508 NVA 2016-05-420-0605 Product of U.S.A.

**BASF**  
We create chemistry

| <b>FIRST AID</b>                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If swallowed</b>                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything to an unconscious person.</li> </ul> |
| <b>If on skin or clothing</b>                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                                                          |
| <b>If in eyes</b>                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                      |
| <b>HOTLINE NUMBER</b>                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                   |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).</p> |                                                                                                                                                                                                                                                                                                                                                                   |

## **Precautionary Statements**

### **Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed or absorbed through the skin. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. **DO NOT** contaminate kitchen utensils with this product. Pets may be attracted to this product.



## Environmental Hazards

This pesticide is toxic to fish and wildlife. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters.

---

## Directions For Use

---

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

This is a ready-to-use product for use in controlling numerous ants both indoors and outdoors. This bait formulation combines a mixture of foods and the delayed action insecticide, abamectin. This insecticide acts to reduce the population of worker ants and can cause an immediate halt in egg production resulting in colony elimination.

In order to ensure access to bait, avoid the use of repellent insecticides or sprays on or near this product. Nonrepellent insecticides such as dinotefuran, chlorfenapyr, and fipronil may be used in conjunction with this product.

# STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

## **Pesticide Storage**

Always store pesticides in the original container. Store in a cool, dry area away from heat or open flame, in an area that is inaccessible to children and animals.

## **Pesticide Disposal**

Waste resulting from use of this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

## **Container Handling**

**Nonrefillable container. DO NOT reuse or refill this container.**

**If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

## **In Case of Emergency**

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

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## Outdoor Applications

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Reapply as necessary but not sooner than 30 days after last application. **DO NOT** apply more than 4 pounds of product per acre per year. **DO NOT** apply more than 0.00044 pounds of abamectin per acre per year.

### Broadcast Application

Use this product at a rate of 1 pound per acre. This is equivalent to approximately 1.8 ounces per 5,000 square feet or 0.4 ounce per 1,000 square feet (1 tablespoon equals approximately 0.3 ounce of bait). Apply the product as uniformly as possible.

### Around Structures

Lightly sprinkle evenly at a rate of 0.3 ounce per 100 linear feet in a band approximately 1 to 2 feet wide around the foundation of the building. Treat visible trails with approximately 1 ounce of product.

### Individual Colony Treatment

Use 1.5 to 3 ounces of product per colony.

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## Indoor Applications

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**DO NOT** use in the food/feed areas of food/feed handling establishments, restaurants, or other areas where food is commercially prepared or processed. **DO NOT** use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held.

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed. Non-food areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

## **Locate Ant Activity**

Follow ants back to voids. Apply bait to crevices or voids where ants are active. Use up to 5 tablespoons per treatment site in a heavily traveled area. Use less in areas with less activity or if the treatment site will not hold that much. Use a large **Centrobulb®** puffer or other appropriate application device to place bait in crevices or voids. Enlarging the void's opening may be required. **DO NOT** contaminate kitchen utensils with this product.

## **To Treat Plumbing Voids with Known Ant Activity**

Obtain access to void and place up to 5 tablespoons inside the plumbing void. Place bait where it will remain dry. **DO NOT** contaminate kitchen utensils with this product.

## **Utilities (such as above ground transformers, in-ground utility boxes, pedestal boxes, etc.)**

If Fire ants are nesting or traveling inside utility boxes, place 5 to 7 tablespoons for lighter infestations or up to 3 ounces for heavy infestations on the ground or open floor area of the utility box. Placement should be made so bait stays dry and does not contact any equipment. **DO NOT** contaminate kitchen utensils with this product.

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF. PCS915

**Advance** is a registered trademark of BASF.

**Centrobulb** is a registered trademark of the Centro Co.

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000499-00370.20161102.**NVA 2016-04-420-0249**

Based on: NVA 2016-04-420-0134  
Supersedes: NVA 2015-04-420-0070

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



We create chemistry

## **Advance® Granular Carpenter Ant Bait**

**KILLS:** Carpenter Ants and many common varieties of ants such as Acrobat, Argentine, Bigheaded, Crazy, Field, Fire, Harvester, Lasius, Little Black, Odorous House, Pavement, Pharaoh, and Thief Ants

**FOR USE IN AND AROUND:** Commercial and Other Structures, Food Storage Areas, Golf Courses, Homes, Hotels, Inedible Product Areas of Meat Packing Plants, Lawns, Motels, Non-food/feed Areas of Commercial Buildings, Non-occupied Patient Areas of Hospitals and Nursing Homes, Parks, Residential Areas, Schools, Supermarkets, Turf, and Warehouses

### **ACTIVE INGREDIENT:**

Abamectin\* B<sub>1</sub> ..... 0.011%

**OTHER INGREDIENTS:** ..... 99.989%

**TOTAL:** ..... 100.000%

\*U.S. Pat. 4,310,519

**EPA Reg. No. 499-370**

**EPA Est. No. 7969-MO-1**

## **KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to full label for **First Aid**, **Precautionary Statements**, **Directions For Use**, **Storage and Disposal**, **Conditions of Sale and Warranty**, and state-specific use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

**FIRST AID—If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. **DO NOT** induce vomiting unless told to do so by a

poison control center or doctor. **DO NOT** give anything to an unconscious person. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for treatment advice. **HOTLINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

## **Precautionary Statements Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed or absorbed through the skin. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. **DO NOT** contaminate kitchen utensils with this product. Pets may be attracted to this product.

### **Environmental Hazards**

This pesticide is toxic to fish and wildlife. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters.

Product of U.S.A.

81040295 NVA 2016-05-420-0605

**NET WEIGHT: 8 ounces**



We create chemistry

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

**ADVION ANT GEL**

Version 1.1      Revision Date: 04/04/2023      SDS Number: S1496027135      This version replaces all previous versions.

**SECTION 1. IDENTIFICATION**

Product name : ADVION ANT GEL

Design code. : A20377A

Product Registration number : 100-1498

**Manufacturer or supplier's details**

Company name of supplier : Syngenta Crop Protection, LLC

Address : Post Office Box 18300  
Greensboro NC 27419  
United States of America (USA)

Telephone : 1 800 334 9481

Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com

Emergency telephone : 1 800 888 8372

**Recommended use of the chemical and restrictions on use**

Recommended use : Insecticide

Restrictions on use : General Use Pesticide

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

**GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|---------|-----------------------|
|---------------|---------|-----------------------|



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|               |             |              |
|---------------|-------------|--------------|
| sucrose, pure | 57-50-1     | >= 30 - < 50 |
| indoxacarb    | 173584-44-6 | 0.05         |

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Take the victim into fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control center immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Nonspecific  
No symptoms known or expected.
- Notes to physician : There is no specific antidote available.  
Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting : As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.

**ADVION ANT GEL**

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Further information : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Avoid dust formation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).  
Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : No special protective measures against fire required.  
Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

Conditions for safe storage : No special storage conditions required.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

| Components    | CAS-No. | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|---------------|---------|----------------------------------|------------------------------------------------|-----------|
| sucrose, pure | 57-50-1 | TWA                              | 10 mg/m <sup>3</sup>                           | ACGIH     |
|               |         | TWA (Respirable)                 | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|               |         | TWA (total)                      | 10 mg/m <sup>3</sup>                           | NIOSH REL |
|               |         | TWA (total dust)                 | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |

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|            |             |                                |                           |          |
|------------|-------------|--------------------------------|---------------------------|----------|
|            |             | TWA (respirable fraction)      | 5 mg/m3                   | OSHA Z-1 |
|            |             | TWA (Total dust)               | 15 mg/m3                  | OSHA P0  |
|            |             | TWA (respirable dust fraction) | 5 mg/m3                   | OSHA P0  |
| indoxacarb | 173584-44-6 | TWA                            | 1 mg/m3 (Respirable dust) | Supplier |

**Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.  
The extent of these protection measures depends on the actual risks in use.  
Maintain air concentrations below occupational exposure standards.  
Where necessary, seek additional occupational hygiene advice.

**Personal protective equipment**

**Respiratory protection** : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection**

**Remarks** : No special protective equipment required.

**Eye protection** : No special protective equipment required.

**Skin and body protection** : No special protective equipment required.  
Select skin and body protection based on the physical job requirements.

**Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : solid

**Color** : off-white

**ADVION ANT GEL**

|                |                              |                            |                                              |
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|                                                  |                                                 |
|--------------------------------------------------|-------------------------------------------------|
| Odor                                             | : No data available                             |
| Odor Threshold                                   | : No data available                             |
| pH                                               | : 5 - 9<br>Concentration: 1 %w/v                |
| Melting point/range                              | : No data available                             |
| Boiling point/boiling range                      | : No data available                             |
| Flash point                                      | : does not flash                                |
| Evaporation rate                                 | : No data available                             |
| Flammability (solid, gas)                        | : No data available                             |
| Upper explosion limit / Upper flammability limit | : No data available                             |
| Lower explosion limit / Lower flammability limit | : No data available                             |
| Vapor pressure                                   | : No data available                             |
| Relative vapor density                           | : No data available                             |
| Density                                          | : 1.18 - 1.22 g/cm <sup>3</sup> (68 °F / 20 °C) |
| Solubility(ies)                                  |                                                 |
| Water solubility                                 | : No data available                             |
| Solubility in other solvents                     | : No data available                             |
| Partition coefficient: n-octanol/water           | : No data available                             |
| Autoignition temperature                         | : No data available                             |
| Decomposition temperature                        | : No data available                             |
| Viscosity                                        |                                                 |
| Viscosity, dynamic                               | : No data available                             |
| Viscosity, kinematic                             | : No data available                             |
| Explosive properties                             | : No data available                             |
| Oxidizing properties                             | : No data available                             |

**ADVION ANT GEL**

|                |                              |                            |                                              |
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|----------------|------------------------------|----------------------------|----------------------------------------------|

Particle size : No data available

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Reactivity                         | : None reasonably foreseeable.                                |
| Chemical stability                 | : Stable under normal conditions.                             |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| Conditions to avoid                | : No decomposition if used as directed.                       |
| Incompatible materials             | : None known.                                                 |
| Hazardous decomposition products   | : No hazardous decomposition products are known.              |

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Ingestion  
Inhalation  
Skin contact  
Eye contact

**Acute toxicity****Product:**

|                       |                                              |
|-----------------------|----------------------------------------------|
| Acute oral toxicity   | : LD50 (Rat, female): > 5,000 mg/kg          |
| Acute dermal toxicity | : LD50 (Rat, male and female): > 5,000 mg/kg |

**Components:****indoxacarb:**

|                           |                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): 268 mg/kg                                                                                                                               |
| Acute inhalation toxicity | : LC50 (Rat): > 5.5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity     | : LD50 (Rat): > 5,000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity                                                      |

**Skin corrosion/irritation****Product:**

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

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**Components:****indoxacarb:**

Result : No skin irritation

**Serious eye damage/eye irritation****Product:**

Species : Rabbit

Result : No eye irritation

**Components:****indoxacarb:**

Result : No eye irritation

**Respiratory or skin sensitization****Product:**

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Did not cause sensitization on laboratory animals.

**Components:****indoxacarb:**

Result : May cause sensitization by skin contact.

**Germ cell mutagenicity****Components:****indoxacarb:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**Carcinogenicity****Components:****indoxacarb:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**Reproductive toxicity****Components:****indoxacarb:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**ADVION ANT GEL**

|                |                              |                            |                                              |
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**STOT-single exposure****Components:****indoxacarb:**

|               |   |                                                                                                        |
|---------------|---|--------------------------------------------------------------------------------------------------------|
| Target Organs | : | Central nervous system                                                                                 |
| Assessment    | : | The substance or mixture is classified as specific target organ toxicant, single exposure, category 2. |

**STOT-repeated exposure****Components:****indoxacarb:**

|               |   |                                                                                                          |
|---------------|---|----------------------------------------------------------------------------------------------------------|
| Target Organs | : | Blood, Nervous system                                                                                    |
| Assessment    | : | The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. |

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****indoxacarb:**

|                                                                        |   |                                                                              |
|------------------------------------------------------------------------|---|------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.65 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 0.6 mg/l<br>Exposure time: 48 h           |
| Toxicity to algae/aquatic plants                                       | : | EC50 (Lemna gibba (gibbous duckweed)): > 84.3 mg/l<br>Exposure time: 14 d    |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 0.15 mg/l<br>Exposure time: 90 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.09 mg/l<br>Exposure time: 21 d          |

**Persistence and degradability****Components:****indoxacarb:**

|                  |   |                                    |
|------------------|---|------------------------------------|
| Biodegradability | : | Result: Not readily biodegradable. |
|------------------|---|------------------------------------|

**Bioaccumulative potential****Product:**

|                 |   |                                         |
|-----------------|---|-----------------------------------------|
| Bioaccumulation | : | Remarks: Low bioaccumulation potential. |
|-----------------|---|-----------------------------------------|

**ADVION ANT GEL**

|                |                              |                            |                                              |
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|----------------|------------------------------|----------------------------|----------------------------------------------|

**Components:****indoxacarb:**

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 950.3  
Exposure time: 21 d

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: Slightly mobile in soils

**Components:****indoxacarb:**

Distribution among environmental compartments : Remarks: No data available

**Other adverse effects**

No data available

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

---

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good



**ADVION ANT GEL**

|                |                              |                            |                                              |
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|----------------|------------------------------|----------------------------|----------------------------------------------|

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**Special precautions for user**

Remarks : Not classified as dangerous in the meaning of transport regulations.

---

**SECTION 15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**Caution**

Avoid contact with skin, eyes or clothing.

Wash thoroughly with soap and water after handling.

**CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**The ingredients of this product are reported in the following inventories:**

TSCA : On or in compliance with the active portion of the TSCA inventory

---

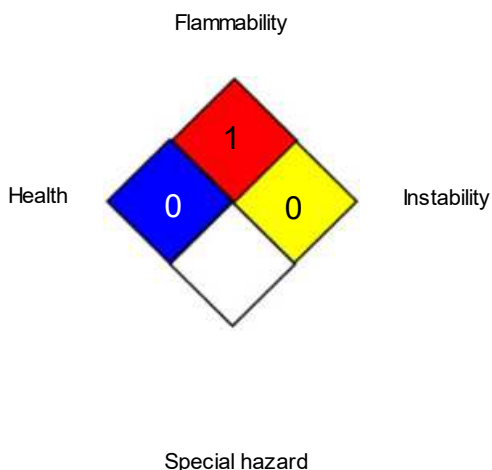
**SECTION 16. OTHER INFORMATION****Further information**

## ADVION ANT GEL

Version  
1.1Revision Date:  
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This version replaces all previous versions.

### NFPA 704:



### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 0 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

|                 |   |                                                                                           |
|-----------------|---|-------------------------------------------------------------------------------------------|
| ACGIH           | : | USA. ACGIH Threshold Limit Values (TLV)                                                   |
| NIOSH REL       | : | USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA P0         | : | USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)                        |
| OSHA Z-1        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| ACGIH / TWA     | : | 8-hour, time-weighted average                                                             |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA P0 / TWA   | : | 8-hour time weighted average                                                              |
| OSHA Z-1 / TWA  | : | 8-hour time weighted average                                                              |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

**ADVION ANT GEL**

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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04/04/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8

# Allure<sup>®</sup>

## Stored Product Moth Kit



**GHS Signal Word: Warning**

**Hazard Statements:** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

**Precautionary Statements (Prevention):** Wear protective gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash contaminated body parts thoroughly after handling.

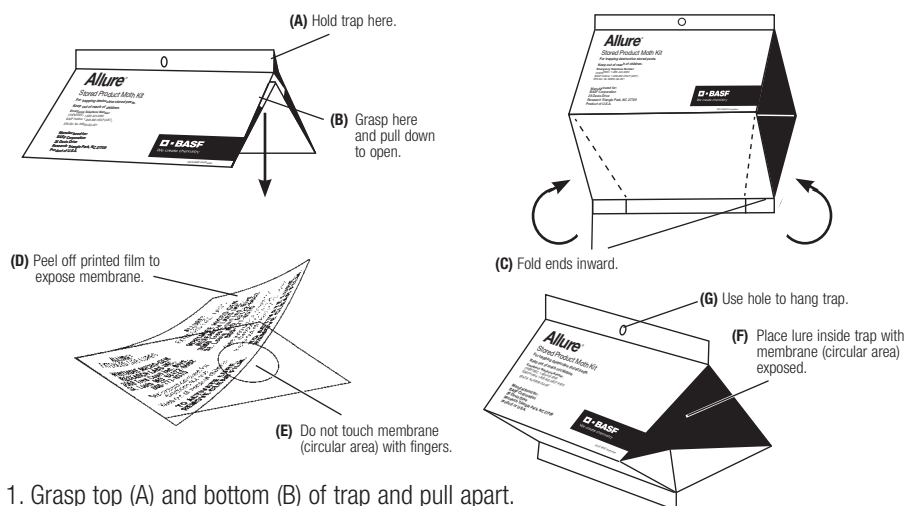
**Precautionary Statements (Response):** Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. If eye irritation persists: Call a POISON CENTER or physician. Take off contaminated clothing and wash it before reusing.

**Precautionary Statements (Storage):** Store in a well-ventilated place. Keep lid tightly closed. Store locked up.

**Precautionary Statements (Disposal):** Dispose of contents/container to hazardous or special waste collection point.

| CAS Number | Weight % | Chemical name                                 |
|------------|----------|-----------------------------------------------|
| 31654-77-0 | 93.0 %   | 9,12-Tetradecadien-1-ol, 1-acetate, (9E,12Z)- |

### Allure<sup>®</sup> Diamond Trap Assembly Instructions:



1. Grasp top (A) and bottom (B) of trap and pull apart.
2. Fold perforated ends (C) inward to hold the trap in three dimensional shape as shown.
3. Activate pheromone lure by peeling off printed film (D) to expose membrane (E). Do not touch exposed membrane with fingers.
4. Place the lure inside the trap on the glue, located under the top of the trap (F). To function properly, lures must be placed inside trap with membrane (circular area) facing away from glue.
5. Use the hole on top of trap (G) to hang in appropriate locations with wire or string.

### Indian Meal Moth

*Plodia interpunctella* (Hubner)



(Lure attracts several related species: Almond Moth, Mediterranean Flour Moth, Raisin Moth, Tobacco Moth)

### GEOGRAPHIC RANGE:

Worldwide

### IDENTIFICATION:

**Adult** - All have narrow forewings and broad hind wings and labial palps which project forward forming a snout. Indian Meal Moths are 3/8 to 1/2 inch (10 to 13 millimeters) long with a wingspan of 3/8 to 3/4 inch (16 to 20 millimeters). Forewings are silver-grey, with outer two-thirds coppery brown; hind wings are dirty white. Other species are similar in appearance with grey mottled wings.

**Larvae** - Larvae of the different species are hard to distinguish, appearing dirty white; but may be yellow, pink, brown, or greenish depending on the food source.

### LURE DURATION:

16 weeks

Product of the United Kingdom.

NVA 2023-05-0515-0473

**Manufactured for:**  
**BASF Corporation**  
26 Davis Drive  
Research Triangle Park, NC 27709

**BASF**  
We create chemistry

## Trap Placement and Use:

**For monitoring**, evenly space traps in a grid system. Use one trap per 30,000 cubic feet. Hang in appropriate locations with wire or string. Record trap counts on the BASF **Allure**® Monitoring Record form.

**To find infestations within the facility**, move traps from uninfested areas to the area where moths have been captured, increasing trap density to as much as one trap per 9,000 cubic feet. Close inspection in the area of maximum trap catch should reveal the infestation source.

**Mass trapping** can be accomplished with trap densities of one or more traps per 3,000 cubic feet, depending on the size of the moth population. Inspect traps weekly and remove insects and debris. Replace trap if insects, dust, or debris reduce stickiness. The pheromone lure lasts 16 weeks and can be removed and used on new traps.

Obtain further information and local recommendations from your state Agricultural Extension Service, local pest control company, or a consulting entomologist.

**Note:** To prolong storage life of the pheromone packet, refrigerate or freeze. Use tweezers or rubber gloves in handling to avoid contaminating packets when different **Allure**® products are being used. Do not damage the lure membrane by stapling, pinning or nailing the packet to the trap.

## COMMODITIES ATTACKED:

Broken grain and grain products; biscuits; candy; chocolate; cocoa beans; cornmeal; crackers; dog food; dried fruits; nuts; powdered milk; red peppers; seeds; shelled or ear corn; tobacco; and whole wheat or graham flour.

### Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, placement, presence of other materials, or use of the product in a manner inconsistent with its directions, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT. BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

NFR PCS714

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Manufactured for:  
BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

NVA 2023-04-0515-0122



We create chemistry



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 14, 2021

Ron E. Hampton, Ph.D.  
Sr. Regulatory Product Manager  
Turf, Ornamentals and Pest Control  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Label Amendment – Addition of the Termite Precautionary Statement as Requested by the State of Louisiana; Restoration of the Risk Mitigation Required by the Indoxacarb Interim Decision; and Update to First Aid Statement  
Product Name: Arilon  
EPA Registration Number: 100-1501  
Application Date: April 26, 2021  
Decision Number: 573394

Dear Dr. Hampton:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

The purpose of this label amendment is to restore previously accepted indoxacarb interim decision mitigation seen on the accepted label dated 9/25/2020 that was superseded by a subsequent label Notification approved on 11/20/2020. As part of this label action, the agency is also approving an update made to the First Aid Statements.

A stamped copy of your labeling is attached for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the

website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

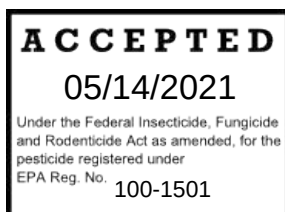
Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Jamie Harrington by email at [harrington.jamie@epa.gov](mailto:harrington.jamie@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Debra Rate", is positioned above the typed name.

Debra Rate, Ph.D., Senior Regulatory Specialist  
Invertebrate & Vertebrate Branch 2  
Registration Division (7505P)  
Office of Pesticide Programs

Attachment



[Master label]

|            |       |     |             |
|------------|-------|-----|-------------|
| INDOXACARB | GROUP | 22A | INSECTICIDE |
|------------|-------|-----|-------------|

**Arilon®**

## Insecticide

For use in and around single and multi-family residential buildings; schools; institutional, commercial, and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, daycare facilities, food-handling/storage/processing establishments and zoos); transportation equipment, such as aircraft, trains, ships, boats, and buses; and companion animal housing.

Do not use this product as the sole source of control for active structural infestations by termites.

Active Ingredient:

|                    |        |
|--------------------|--------|
| Indoxacarb*:       | 20.0%  |
| Other Ingredients: | 80.0%  |
| Total:             | 100.0% |

\*CAS No. 173584-44-6

Indoxacarb belongs to the oxadiazine chemical class.

Arilon® is a water-dispersible granule (WG) that contains 0.2 lb indoxacarb per lb product.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 100-1501

EPA Est. No.

Net Contents

[Batch Code: \_\_\_\_\_] (For nonrefillables only.)



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## 1.0 FIRST AID

| <b>FIRST AID</b>                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If swallowed</b>                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or a doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If in eyes</b>                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                    |
| <b>If on skin or clothing</b>                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                                                        |
| <b>If inhaled</b>                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                            |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment.                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                 |
| <p align="center"><b>HOT LINE NUMBER</b></p> <p align="center">For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical<br/>Emergency Assistance (Spill, Leak, Fire, or Accident),<br/>Call<br/><b>1-800-888-8372</b></p> |                                                                                                                                                                                                                                                                                                                                                 |

## 2.0 PRECAUTIONARY STATEMENTS

### 2.1 Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing (dust, vapor or spray mist). Remove contaminated clothing and wash clothing before reuse.

## 2.2 Personal Protective Equipment (PPE)

All pesticide handlers (mixers, loaders and applicators) must wear:

- Shirt and long pants
- Waterproof gloves
- Shoes plus socks

### 2.2.1 User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

### 2.2.2 User Safety Recommendations

**Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## 2.3 Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinse water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Runoff of this product will be reduced by avoiding applications when rainfall is likely to occur within 24 hours. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Do not apply to any impervious surfaces which may contact or lead directly to surface water, storm drains, or urban runoff conveyance systems (gutters).

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read entire label before using this product. Syngenta will not be responsible for losses or damages resulting from use of this product in any manner not specifically stated on this label or other labels or bulletins published by Syngenta. User assumes all risks associated with such non-specified use.

## 3.0 PRODUCT INFORMATION

Arilon is a water-dispersible granule concentrate that contains the non-repellent active ingredient indoxacarb. When applied following label directions, Arilon is effective at controlling a wide range of listed insect pests common in urban environments.

After dilution in water, Arilon forms a suspension for making applications. Arilon is formulated not to stain or to damage building surfaces where water applied alone causes no damage. Before the first application is made, treating a small area and allowing it to dry to determine whether staining will occur is still recommended.

### 3.1 Insect Resistance Management

|            |       |     |             |
|------------|-------|-----|-------------|
| INDOXACARB | GROUP | 22A | INSECTICIDE |
|------------|-------|-----|-------------|

For resistance management, Arilon contains a Group 22A insecticide. Any insect population may contain individuals naturally resistant to Arilon and other Group 22A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same treated areas. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Arilon or other Group 22A insecticides with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classifications are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).

- Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
- The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.

Contact your local Syngenta representative, retailer, or extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. For further information or to report suspected resistance contact Syngenta at 1-866-SYNGENT(A) (866-796-4368).

## 3.2 Food-Handling Establishments

Food-handling establishments are places other than private residences in which food is held, processed, prepared or served.

### 3.2.1 Applications in Non-Food Areas

Arilon is labeled for use as a spot or crack-and-crevice treatment at a maximum volume of 1 gallon per 1,000 sq ft to control cockroaches and other listed\* pests in residential structures and the non-food areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, daycares, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

\*Refer to **Section 6.0** for directions for specific pests.

Non-food/non-feed areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to **Section 3.2.3** for use restrictions when making applications in food-/feed-handling areas of Food-/Feed-Handling Establishments.

### 3.2.2 Applications in Food- and Feed-Handling Areas

Application to food/feed areas of food/feed-handling establishments should be made as a spot or crack-and-crevice treatment at a maximum volume of 1 gallon per 1,000 sq ft at the highest dilution rate (0.1% dilution). Refer to **Section 4.4** for mixing instructions and dilution tables, and refer to **Section 6** for specific dilution directions.

Food- and feed-handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

Apply into cracks and crevices using equipment designed to deliver a pin stream between different elements of construction, between floor and equipment, openings to voids and hollow spaces in walls, bases and equipment. Refer to **Section 6.0** for directions for specific pests.

### 3.2.3 Specific Restrictions for Food-Handling Establishments

- **Do not** apply to areas or surfaces where food/feed, food utensils or food-processing surfaces may come into contact and become contaminated.
- **Do not** apply to areas that are routinely washed, such as cracks and crevices in tops of tables, food/feed preparation and holding surfaces for prepared foods.

## 3.3 Companion Animal Housing

Apply Arilon as a spot and/or crack-and-crevice treatment in unoccupied companion animal housing. Normal cleaning practices of the structure should be followed along with applications of Arilon insecticide to effectively control the crawling and flying insect pests listed in **Section 6.0**.

For unoccupied areas of companion animal structures such as kennels, apply as a spot and/or crack-and-crevice treatment to floors, vertical and overhead surfaces where listed crawling or flying insect pests are or may be present. Cover feeders and waterers before application to prevent contamination. Pay attention to areas such as windows and doors and areas where insect pests hide or congregate. Apply perimeter treatments in a uniform band 1-3 feet up and 2-6 feet out from the companion animal housing facility. Allow treated surfaces to dry before animal reentry. Maintaining a year-round integrated pest management program that includes multiple tactics will help prevent populations of pests from reaching problem levels.

### 3.3.1 Specific Restrictions for Companion Animal Housing

- **Do not** apply to structures while occupied by companion animals.
- **Do not make** applications to any animal feedstuffs, water or watering equipment.
- **Do not** contaminate any animal food, feed, or water in and around companion animal housing when making applications.

## 4.0 APPLICATION DIRECTIONS

### 4.1 Methods of Application

### 4.1.1 Indoors

Apply Arilon using a coarse low-pressure spray as a spot or crack and crevice treatment to infested areas or areas suspected to be infested. Make applications to areas including pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, and along baseboards and reticulation systems. Arilon can be applied using ULV equipment such as a Micro Injector® or Actisol® machine for crack-and-crevice or spot applications only. Do not use ULV equipment to make spatial or fogging treatments.

### 4.1.2 Outdoors

Apply Arilon using a coarse, low-pressure spray as a spot, crack and crevice, general surface or perimeter banded treatment to control or prevent pest infestations. Perimeter band width must not be greater than a total of 7 feet. A perimeter band of 7 feet, for example, can include up to 3 feet up the exterior wall and out to 5 feet of horizontal surface away from the wall base, but not exceed a total of 7 feet.

## 4.2 Application Equipment

Small-volume applications to interior or exterior surfaces can be made with backpack or hand-held applicators. Arilon can be applied using ULV equipment such as a Micro Injector or Actisol machine for crack-and-crevice or spot applications only. Arilon can also be applied using foam-generating equipment (see section 4.5 for foaming instructions). For exterior applications with higher volumes, Arilon can be applied to exterior of structures using high-volume sprayers, truck-mounted or other power equipment.

## 4.3 Application Volume and Spray Coverage

For indoor use, apply no more than 1 gallon per 1,000 sq ft. For exterior use with backpack or other hand sprayers, 1-4 gallons per 1,000 sq ft is recommended. The maximum volume for exterior use is 4 gallons per 1,000 sq ft at 0.1% dilution (0.53 oz ai/1,000 sq ft).

For exterior use on medium to heavy infestations of pests, porous surfaces, complex sites, such as dense perimeter landscaping, dense mulching, or for maximum residual performance, use higher specified volumes.

For applications to exterior of structures using high-volume power-spray equipment, Arilon can be diluted to less than 0.05% concentration and applied at a higher volume. Lower mix rates with higher application volume helps ensure proper spray coverage and distribution of the insecticide. The higher spray volumes may be necessary for exterior applications to dense vegetation, mulch or other challenging areas around structures. As a mixing example, if targeted spray volume is 5 gallons of spray per 1,000 sq ft, mix 0.33 oz [1 packet] per 5 gallons of water. If targeted spray volume is 10 gallons of spray per 1,000 sq ft, mix 0.33 oz [1 Packet] per 10 gallons of water. For exterior use in



California, refer to Section 5.2 for application volume, treatment intervals and limits on numbers of applications.

## 4.4 Mixing Directions

- 1 **IMPORTANT: Do not pour Arilon into an empty tank.**
- 2 **[Each packet must first be opened. Then pour the contents into the application or mixing tank.]**
- 3 Clean application tank prior to using Arilon.
- 4 Fill application tank with water to about half of desired volume.
- 5 Pour the appropriate amount of Arilon into tank.
- 6 Agitate.
- 7 Fill tank with remaining volume of water and agitate again.
- 8 Treatment mixture is now ready to apply. If treatment mixture sits in the tank for extended periods, re-agitate prior to application.

#### 4.4.1 Tank Mixing

Arilon may be tank-mixed with other currently registered pesticides unless expressly prohibited by the product label. To ensure compatibility, conduct a small volume mixing test with the other products. If using Arilon in a tank mixture, observe all directions for use, use rates, dilution ratios, precautions, and limitations which appear on the product labels. Follow the most restrictive label precautions and limitations and do not exceed labeled application rates for any product. This product should not be mixed with any product which prohibits such mixing.

#### 4.4.2 [For Arilon in Non-Refillable Rigid Plastic Containers]

| <b>Volume Water to Use<br/>(Gal)</b> | <b>Desired End Use<br/>Application Rate</b> | <b>Amount of<br/>Arilon needed</b> |
|--------------------------------------|---------------------------------------------|------------------------------------|
| 1                                    | 0.05%                                       | 0.33 oz                            |
|                                      | 0.10%                                       | 0.66 oz                            |
| 3                                    | 0.05%                                       | 1.0 oz                             |
|                                      | 0.10%                                       | 2.0 oz                             |
| 5                                    | 0.05%                                       | 1.7 oz                             |
|                                      | 0.10%                                       | 3.3 oz                             |
| 25                                   | 0.05%                                       | 8.25 oz                            |
|                                      | 0.10%                                       | 16.5 oz                            |
| 50                                   | 0.05%                                       | 16.5 oz                            |
|                                      | 0.10%                                       | 33.0 oz                            |

#### 4.4.3 [For Arilon in Non-Refillable Packets]

| <b>Volume Water to Use<br/>(Gal)</b> | <b>Desired End Use<br/>Application Rate</b> | <b>Quantity of<br/>Arilon Packets needed</b> |
|--------------------------------------|---------------------------------------------|----------------------------------------------|
| 1                                    | 0.05%                                       | 1 packet (0.33 oz)                           |
|                                      | 0.10%                                       | 2 packets (0.66 oz)                          |
| 3                                    | 0.05%                                       | 3 packets (1.0 oz)                           |
|                                      | 0.10%                                       | 6 packets (2.0 oz)                           |
| 5                                    | 0.05%                                       | 5 packets (1.7 oz)                           |
|                                      | 0.10%                                       | 10 packets (3.3 oz)                          |
| 25                                   | 0.05%                                       | 25 packets (8.25 oz)                         |
|                                      | 0.10%                                       | 50 packets (16.5 oz)                         |

## 4.5 Delivery of Arilon as a Foam Preparation

For certain situations, it may be desirable to apply Arilon as a foam preparation for delivery by using foam-generating equipment. Foam applications are particularly useful for applications to voids, e.g. wall or other structural voids, for treating pests in difficult to reach areas.

Prepare the finished dilution of Arilon and mix it with manufacturer's specified volume of foaming agent to achieve the desired foam expansion ratio best suited to specific applications (provided in the text of this label). For best results, the foaming agent that is used should be non-repellent to the target species. For wall voids, galleries and spot applications, use an expansion ratio of greater than or equal to 25:1 to create foam with a drier consistency; for subsurface applications, concrete block, etc., use foam with wetter consistency with an expansion ratio in the range of 5:1 to 15:1.

### 4.5.1 Mixing Table for Arilon Foam

| Arilon Use Dilution                                        | Finished Mixture (Gallons) | Foam Expansion Ratio* | Finished Foam (Gallons) |
|------------------------------------------------------------|----------------------------|-----------------------|-------------------------|
| 0.05-0.1%<br>(0.33 oz to 0.66 oz per<br>1 gallon of water) | 1.0                        | 25:1                  | 25                      |
|                                                            | 1.66                       | 15:1                  |                         |
|                                                            | 2.5                        | 10:1                  |                         |
|                                                            | 5.0                        | 5:1                   |                         |

\* Add the manufacturer's recommended quantity of foaming agent to the Arilon dilution.

## 5.0 RESTRICTIONS AND PRECAUTIONS

### 5.1 Use Restrictions

- **DO NOT** formulate this product into other end-use products without written permission of Syngenta.
- **Chemigation: DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product in commercial nurseries and greenhouses or on sod farms. Not for use on plants being grown for sale or other commercial use, or for commercial seed production.
- Keep people and pets away from treated areas until treatment has dried.
- **DO NOT** apply a broadcast or general surface application to interior surfaces of residential or commercial structures.
- **DO NOT** apply as a spatial or fogging treatment using ULV equipment.
- **DO NOT** apply this product to pets or edible crops.
- **DO NOT** use water-based sprays of Arilon in or on electrical equipment or outlets due to possible shock hazard.
- At residential sites, all food-processing surfaces and utensils in the treatment area must be covered during treatment or thoroughly washed before reuse.

- **DO NOT** apply this product in patient rooms or in any rooms being occupied including rooms occupied by the elderly or infirm.
- **DO NOT** apply to classrooms when in use.
- **DO NOT** apply to institutions (e.g., libraries and recreational facilities) when occupants are present in the immediate area/room being treated.
- **DO NOT** use in aircraft cabins.
- **DO NOT** clean equipment near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.
- **DO NOT** use to treat drywood termites in New York State

## 5.2 California Restrictions on Exterior Applications

When applying Arilon to the exterior of structures, **do not** exceed the limitations listed in the following table.

| Small-Volume Applications Using Backpack or Hand-held Applicators |                        |                                                 |                                   |                                         |
|-------------------------------------------------------------------|------------------------|-------------------------------------------------|-----------------------------------|-----------------------------------------|
| Volumes ≤3 Gallons per 1,000 sq ft                                |                        |                                                 |                                   |                                         |
| Amount of Arilon per Gallon (oz)                                  | Dilution Concentration | Application Volume (Gal/1,000 ft <sup>2</sup> ) | Minimum Treatment Interval (days) | Maximum Number of Applications per Year |
| 0.33                                                              | 0.05%                  | 1-3                                             | 30                                | 12                                      |
| 0.66                                                              | 0.10%                  | 1-1.5                                           | 30                                | 12                                      |
| High-Volume Applications Using Power Sprayers                     |                        |                                                 |                                   |                                         |
| Volumes ≥3 Gallons per 1,000 sq ft                                |                        |                                                 |                                   |                                         |
| Amount of Arilon per 10 Gallons (oz)                              | Dilution Concentration | Application Volume (Gal/1,000 ft <sup>2</sup> ) | Minimum Treatment Interval (days) | Maximum Number of Applications per Year |
| 3.3                                                               | 0.05%                  | 3                                               | 30                                | 12                                      |
|                                                                   |                        | 4                                               | 30                                | 4                                       |
| 1.7                                                               | 0.025%                 | 4-7                                             | 30                                | 6                                       |
| 0.66                                                              | 0.010%                 | 4-10                                            | 30                                | 12                                      |
| 0.33                                                              | 0.005%                 | 4-10                                            | 7 days                            | 12                                      |

## 5.3 SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

## **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

## **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

## **WIND**

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift

### **Handheld Technology Applications**

- Take precautions to minimize spray drift.

# **6.0 PEST CONTROL USE DIRECTIONS**

## **RE-TREATMENT DIRECTIONS FOR ALL PESTS**

Application to specific areas previously untreated can be made as directed. Under normal pest situations or with maintenance applications, a treatment interval of 30 days is usually sufficient to maintain control. For heavy infestations to gain control, make two applications at 7-day intervals, then revert to maintenance application intervals. For use in California, refer to **Section 5.2** for retreatment intervals.

## 6.1 Ants

| Target Pest                                                                                                                                                                                                                                             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ants                                                                                                                                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Concentration of Active Ingredient in Final Dilution                                                                                                                                                                                                    | Location        | Use Directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.</p> <p>For heavy infestations of ants and/or extreme environmental conditions, use the <b>0.1%</b> rate.</p> | <b>Indoors</b>  | <p>Apply using a coarse, low-pressure spray as a spot or crack-and-crevice treatment at a maximum volume of 1 gallon per 1,000 sq ft. Target active ant trails, nests, or other infested areas or areas suspected to be infested.</p> <p>Spot or crack-and-crevice applications of Arilon may be made to areas including pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, along baseboards and reticulation systems.</p> <p>Arilon can be applied using ULV equipment such as a Micro Injector or Actisol machine for crack-and-crevice or spot applications only.</p> <p>[Ants contacting hard surfaces recently treated with Arilon (or fresh deposits) may transfer lethal doses to other (untreated) ants.]</p> <p>[Brief or limited exposures to fresh Arilon deposits on porous or non-porous surfaces (or across a wide range of surfaces) are still effective at killing ants.]</p>                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                         | <b>Outdoors</b> | <p>Apply using a coarse, low-pressure spray as a spot, crack-and-crevice, general surface or perimeter banded treatment to control or prevent ant infestations.</p> <p>A perimeter band of 7 ft total, for example, can include a maximum of 2 ft up the exterior wall and a maximum of 5 ft out from horizontal substrate away from the wall base.</p> <p>Treat heavier infestations or more complex substrates such as stone or brick with greater volumes of treatment dilution.</p> <p>Refer to <b>Section 4.3</b> for application volume information.</p> <p>In addition to exterior structural elements, outdoor nesting sites such as refuse collection areas, flower/mulch beds, adjacent tree holes, surrounding turf areas, crawl spaces, or other nest/foraging sites, and foraging trails can be treated.</p> <p>Treat ant nests or mounds directly using 1–2 gallons of treatment dilution per mound.</p> <p>Surfaces commonly used by ants for foraging such as outdoor edges/frames of windows, doors, utility penetrations, roof lines or eaves, and other structural edges may also be treated.</p> <p>See <b>Section 5.2</b> for directions for outdoor use in California.</p> <p>[Ants contacting hard surfaces recently treated with Arilon (or fresh</p> |

|                                                                                  |  |                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                  |  | deposits) may transfer lethal doses to other (untreated) ants.]<br><br>[Brief or limited exposures to fresh Arilon deposits on porous or non-porous surfaces (or across a wide range of surfaces) are still effective at killing ants.] |
| <b>USE RESTRICTIONS</b>                                                          |  |                                                                                                                                                                                                                                         |
| 1) Refer to <b>Sections 5.1 and 5.2</b> for additional product use restrictions. |  |                                                                                                                                                                                                                                         |

## 6.2 Carpenter Bees

| Target Pest                                                                                                                                     |                                   |                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carpenter Bees                                                                                                                                  |                                   |                                                                                                                                                                                                                                                      |
| Concentration of Active Ingredient in Final Dilution                                                                                            | Location                          | Use Directions                                                                                                                                                                                                                                       |
| Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.         | <b>Indoors</b> or <b>Outdoors</b> | Arilon is effective at killing carpenter bees. Direct application to bees and their nests should be made to improve treatment to galleries.<br><br>When treating bee galleries, complete coverage of wood surfaces is important for optimal control. |
| <b>Precaution:</b> <ul style="list-style-type: none"> <li>• Arilon will provide adequate control but is not a quick knockdown agent.</li> </ul> |                                   |                                                                                                                                                                                                                                                      |
| <b>USE RESTRICTIONS</b>                                                                                                                         |                                   |                                                                                                                                                                                                                                                      |
| 1) Refer to <b>Section 5.1</b> for additional product use restrictions.                                                                         |                                   |                                                                                                                                                                                                                                                      |

## 6.3 Cockroaches

| Target Pest                                                                                                                                                                                                                                                      |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cockroaches                                                                                                                                                                                                                                                      |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Concentration of Active Ingredient in Final Dilution                                                                                                                                                                                                             | Location                                                           | Use Directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.</p> <p>For heavy infestations of cockroaches and/or extreme environmental conditions, use the higher listed rate.</p> | Indoors                                                            | <p>Apply using a coarse, low-pressure, spot or crack-and-crevice treatment at a maximum volume of 1 gallon per 1,000 sq ft. Target areas of cockroach infestation or areas known or suspected to be cockroach harborage sites.</p> <p>Spot or crack-and-crevice applications can be made to areas including pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, and along baseboards and reticulation systems.</p> <p>Arilon can be applied using ULV equipment such as a Micro Injector or Actisol machine for crack-and-crevice or spot applications only.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                  | Outdoors                                                           | <p>Apply using a coarse, low-pressure spray as a spot, crack-and-crevice, general surface or perimeter banded treatment to control or prevent cockroach infestations.</p> <p>A perimeter band of 7 ft total, for example, can include a maximum of 2 ft up the exterior wall and a maximum of 5 ft out from horizontal substrate away from the wall base. Treat heavier infestations or more complex substrates, such as stone or brick with greater volumes of treatment solution.</p> <p>Refer to <b>Section 4.3</b> for application volume information.</p> <p>In addition to exterior structural elements, treat outdoor breeding sites, such as refuse collection areas, loading docks, adjacent tree holes, crawl spaces, or other sources of cockroach infestations. Apply Arilon in harborage areas around the structure or where pests are likely to enter or rest, such as utility entry points, weep holes, eaves of structures, around windows or doors, or around lights.</p> <p>See <b>Section 5.2</b> for directions for outdoor use in California.</p> |
|                                                                                                                                                                                                                                                                  | For use in Companion Animal Housing, refer to <b>Section 3.3</b> . |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| USE RESTRICTIONS                                                                                                                                                                                                                                                 |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1) Refer to <b>Sections 5.1 and 5.2</b> for additional product use restrictions.                                                                                                                                                                                 |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



## 6.4 Fleas

| Target Pest                                                                                                                             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fleas (larvae and adults)                                                                                                               |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concentration of Active Ingredient in Final Dilution                                                                                    | Location        | Use Directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions. | <b>Indoors</b>  | Direct application as crack-and-crevice or spot treatment to and around pet bedding areas and other known breeding areas of adult or larval fleas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                         | <b>Outdoors</b> | <p>Direct application as spot or broadcast treatment within perimeter of structures known to harbor fleas.</p> <p>Use of higher volume (2-4 gallons per 1,000 sq ft) will provide better coverage in most outdoor substrates, such as lawn, mulch, and other flea breeding areas.</p> <p>Target areas where pets or other animals tend to rest, particularly shady moist areas where fleas can survive and develop.</p> <p>Use of an insect growth regulator in combination (as tank-mix or sequentially) can improve the control of fleas by reducing the number of immature fleas that develop.</p> <p>Use of on-animal treatments as recommended by a veterinarian can greatly improve the overall control of flea problems and is suggested as a part of an integrated control program.</p> <p>See <b>Section 5.2</b> for directions for outdoor use in California.</p> |
| For use in Companion Animal Housing, refer to <b>Section 3.3</b> .                                                                      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| USE RESTRICTIONS                                                                                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1) Refer to <b>Sections 5.1 and 5.2</b> for additional product use restrictions.                                                        |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 6.5 Flies (Including Permethrin-Resistant House Flies)

| Target Pest                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| House flies<br>Fruit flies<br>Stable flies                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Filth / flesh flies<br>Nuisance Flies (such as cluster flies, Phorid flies, and non-biting midges)                                                                                                                                                                                                                 |
| Concentration of Active Ingredient in Final Dilution                                                                                                                                                                                                | Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Use Directions                                                                                                                                                                                                                                                                                                     |
| <p>Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.</p> <p>For stable flies and permethrin-resistant house flies, use higher concentration (<b>0.1%</b>)</p> | <b>Indoors</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Apply as a crack-and-crevice or spot application to fly resting areas at a maximum volume of 1 gallon per 1,000 sq ft.</p> <p>[Arilon applied to hard surfaces (i.e., non-porous or indoor-type environments) is effective at controlling house flies and fruit flies.]</p>                                     |
|                                                                                                                                                                                                                                                     | <b>Outdoors</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Apply as a spot or surface/broadcast application directly to flies or to fly resting areas.</p> <p>Use of higher volumes (2–4 gallons per 1,000 sq ft) will provide better coverage in or on many outdoor substrates and areas.</p> <p>See <b>Section 5.2</b> for directions for outdoor use in California.</p> |
|                                                                                                                                                                                                                                                     | <p><b>Fly control in companion animal structures (see Section 3.3 for additional information on application in and around companion animal housing):</b></p> <p>Arilon can be used in companion animal housing to control house flies, stable flies, nuisance flies (such as gnats, midges), and similar flying insect pests. Apply as a general surface, spot or a crack-and-crevice application to areas where flying pests collect, rest or breed. If needed, Arilon can be reapplied 7 days after previous treatment, or if heavy rainfall occurs, repeat as necessary.</p> <p>For indoor applications to companion animal housing structures, treat surfaces, including walls, ceilings, around doors and windows, floors, and walkways. Do not contaminate or apply to feed or feedstuffs, water or watering equipment.</p> <p>For outdoor applications, treat soil, vegetation, or other substrates in a band up to 7 feet wide adjacent to the building foundations and walls, around doors and windows, and overhead areas where pests are active or may find entry or harborage. Control will be enhanced when facilities are cleaned and indoor applications are supplemented with outdoor perimeter treatments.</p> <p>For the most effective management of fly populations in and around companion animal housing, an integrated pest management plan that includes sanitation, biological control, and use of insecticides with differing modes of action should be used. Use of fly baits will complement the effectiveness of Arilon. In addition, use of an insect growth regulator in combination (as tank-mix or sequentially) can improve the control of flies by reducing the number of fly larvae that</p> |                                                                                                                                                                                                                                                                                                                    |

|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
|                                                                                  | develop into adults. |
| <b>USE RESTRICTIONS</b>                                                          |                      |
| 1) Refer to <b>Sections 5.1 and 5.2</b> for additional product use restrictions. |                      |

## 6.6 Occasional Invaders and Aggregating Pests

| <b>Target Pest</b>                                                                                                                                                                                                                                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beetlesoxelder bugs                                                                                                                                                                                                                               | Grasshoppers    | Sowbugs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Carpet moths                                                                                                                                                                                                                                      | Kudzu bugs      | Springtails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Centipedes                                                                                                                                                                                                                                        | Millipedes      | Stink bugs (including brown marmorated stink bug)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Crickets                                                                                                                                                                                                                                          | Pillbugs        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Earwigs                                                                                                                                                                                                                                           | Silverfish      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration of Active Ingredient in Final Dilution</b>                                                                                                                                                                                       | <b>Location</b> | <b>Use Directions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.</p> <p>For heavy infestations and/or extreme environmental conditions, use the higher listed rate.</p> | <b>Indoors</b>  | <p>Apply using a coarse, low-pressure spray as a spot or crack-and-crevice treatment at a maximum volume of 1 gallon per 1,000 sq ft. Target infested areas or areas suspected to be infested.</p> <p>Direct applications can be made to areas including pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, along baseboards, storage rooms, garage areas, basements and reticulation systems.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                   | <b>Outdoors</b> | <p>Apply using a coarse, low-pressure spray as a spot, crack-and-crevice, general surface or perimeter banded treatment to control listed insect pests and to help prevent these nuisance pests from invading the structure.</p> <p>A perimeter band of 7 ft total, for example, can include a maximum of 2 ft up the exterior wall and a maximum of 5 ft out from horizontal substrate away from the wall base.</p> <p>Apply Arilon in harborage areas around the structure or where pests are likely to enter or rest, such as utility entry points, weep holes, eaves of structures, around windows or doors, or around lights.</p> <p>Treat heavier infestations or more complex substrates, such as stone or brick, with higher volumes of treatment solution.</p> <p>Refer to <b>Section 4.3</b> for application volume information.</p> <p>See <b>Section 5.2</b> for directions for outdoor use in California.</p> |
| For use in Companion Animal Housing, refer to <b>Section 3.3</b> .                                                                                                                                                                                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>USE RESTRICTIONS</b>                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1) Refer to <b>Sections 5.1 and 5.2</b> for additional product use restrictions.                                                                                                                                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 6.7 Pantry Insects/Stored Product Insect Pests

| Target Pest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pantry Insects/Stored Product Insect Pests, Including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><i>Beetles and Weevils:</i></p> <p>Cigarette beetle<br/>Confused flour beetle<br/>Drugstore beetle<br/>Granary weevil<br/>Lesser grain borer<br/>Lesser mealworm (Darkling beetle)<br/>Mealworms (yellow or dark)<br/>Red flour beetle<br/>Rice weevil<br/>Saw-toothed grain beetle</p> </div> <div style="width: 45%;"> <p><i>Moths:</i></p> <p>Angumois grain moth<br/>Indian meal moth<br/>Mediterranean flour moth</p> </div> </div> |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Concentration of Active Ingredient in Final Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Location       | Use Directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.                                                                                                                                                                                                                                                                                                                                                                                            | <b>Indoors</b> | <p>Before application, remove and discard infested food materials.</p> <p>For control of pantry insect pests/stored product insect pests, apply as a crack-and-crevice or spot treatment at a maximum volume of 1 gallon per 1,000 sq ft to infested areas, focusing on cracks in food storage areas, closets, cabinets, shelving, baseboards, and other areas where products are stored or used for transport.</p> <p>Direct application to pantry insect pests will provide best results. Remove or cover any remaining food items or food-serving surfaces.</p> |
| USE RESTRICTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ol style="list-style-type: none"> <li>1) Refer to <b>Section 5.1</b> for additional product use restrictions.</li> <li>2) <b>Do not</b> apply directly to food.</li> </ol>                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 6.8 Subterranean Termites

| Target Pest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subterranean termite species:<br><i>Coptotermes</i><br><i>Heterotermes</i><br><i>Reticulitermes</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             | Dampwood termites:<br><i>Zootermopsis</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration of Active Ingredient in Final Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Location                    | Use Directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Indoors and Outdoors</b> | <p>Arilon can be applied as a spot treatment in and around structures to kill active termites by applying as a coarse liquid spray at 1 gallon per 10 sq ft of infested area. Alternatively, Arilon may be applied as a foam preparation to kill active termites. See Section 4.5 for foam applications. Treat infested sites directly.</p> <p><b>Treatment of Posts, Poles, Stumps or Trees.</b> Use direct applications to kill exposed termites. Most spot applications can be conducted using 1-2 gallons of dilution. Do not treat bearing fruit or nut trees.</p> <p>For heavy infestations of termites and/or extreme environmental conditions, use the higher listed rate.</p> <p>See <b>Section 5.2</b> for restrictions on outdoor use in California.</p> |
| <b>Precautions:</b> <ul style="list-style-type: none"> <li>• This product will kill workers and/or winged reproductive forms of termites present at the time of application only.</li> <li>• Application of this product will not provide structural protection nor substitute for mechanical alteration, soil or foundation treatment with termiticide.</li> <li>• This product is not to be used as sole protection against termites as it is not designed to offer structural protection and will not prevent future infestations.</li> <li>• A professional inspection is recommended.</li> </ul>                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| USE RESTRICTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ol style="list-style-type: none"> <li>1) Refer to <b>Section 5.1</b> for additional product use restrictions.</li> <li>2) <b>DO NOT</b> use this product as the sole source of control for active, structural infestations by subterranean termites; the purpose of this application is to kill workers and/ or winged reproductive forms of termites which are present at the time of treatment. It is not intended to provide structural pest control. It is not a substitute for mechanical alteration, soil and foundation treatment, but merely a supplement. For active, structural infestations by subterranean termites, this product can only be used to supplement a federally registered termiticide product that is registered as a sole source for termite control. This product will not eliminate termite infestations or provide protection against future infestations.</li> </ol> |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 6.9 Drywood Termites

| Target Pest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drywood termites (including the following genera):<br><i>Incisitermes</i><br><i>Cryptotermes</i><br><i>Marginitermes</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration of Active Ingredient in Final Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Location                                 | Use Directions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Apply using a treatment dilution containing <b>0.1%</b> indoxacarb in water.</p> <p>Refer to <b>Section 4.4</b> for mixing instructions.</p> <p>Refer to <b>Section 4.5</b> for application as a foam preparation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Indoors</b><br>and<br><b>Outdoors</b> | <p>To control drywood termites in localized areas of infested wood in structures, apply 0.1% Arilon as a liquid or foam to voids, termite galleries in damaged wood, and/or in spaces between wood and foundations. Locate termite galleries by using visual signs (e.g., fresh fecal pellets or blistered wood), the presence of live pests, mechanical sounding techniques (tapping on the wood surface and listening for changes in sound to indicate changes in wood density), listening devices, motion detection devices or other technologies that help pinpoint drywood termite activity.</p> <p><b>Wood Injection Method</b><br/>           Drill small diameter holes of appropriate size for the injection tip or use a self-puncturing tip, positioned to intersect termite galleries within infested wood. Drywood termite emergence holes or pellet kick-out holes connect directly to galleries and are indicators of potential sites to drill and inject Arilon. Care should be taken to avoid electrical wiring, plumbing, etc. when drilling and injecting. Do not drill or puncture completely through wood. Spacing of the holes will depend on the distribution of insect activity and galleries. Injection holes may be clustered in areas with insect activity as indicated by damage, live insects or other indicators previously described. For large beams (4 inches x 10 inches or larger), injection holes on opposite sides may be necessary to effectively penetrate termite galleries.</p> <p>Apply up to 50 ml (1.7 fl oz) of diluted Arilon liquid at each injection hole. If using Arilon as a foam preparation, inject a sufficient amount to fill galleries.</p> <p><b>Re-treatment guidelines:</b> Reapply if insect activity within treated area is detected 4 or more weeks following treatment. For best results in re-treating galleries, inject Arilon into new injection holes positioned between previous injection sites.</p> |
| <p><b>Precautions:</b></p> <ul style="list-style-type: none"> <li>Treatment requirements for drywood termite control may vary due to state and local regulations. For advice concerning current drywood termite control regulations under local conditions, consult your State structural pest control regulatory agency.</li> <li>When used as directed on this label, Arilon will provide effective remedial control of localized infestations of drywood termites. Knowledge of the biology and behavior of the drywood termite species involved, the locations and the extent of the infestation(s) will help ensure successful control.</li> </ul> |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

- Application of this product will not provide structural protection nor substitute for mechanical alteration, soil or foundation treatment with termiticide.
- This product is not to be used as sole protection against termites as it is not designed to offer structural protection and will not prevent future infestations.
- A professional inspection is recommended.

#### USE RESTRICTIONS

- 1) Refer to **Section 5.1** for additional product use restrictions.
- 2) **Do not** use to treat drywood termites in New York State

## 6.10 Wasps

| Target Pest                                                                                                                             |                            |                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wasps                                                                                                                                   |                            |                                                                                                                                                             |
| Concentration of Active Ingredient in Final Dilution                                                                                    | Location                   | Use Directions                                                                                                                                              |
| Apply using a treatment dilution containing <b>0.05%–0.1%</b> indoxacarb in water. Refer to <b>Section 4.4</b> for mixing instructions. | <b>Indoors or Outdoors</b> | Direct application to insects including nests should be made with pin stream or coarse spray.<br><br>Ensure complete coverage when treating nests directly. |
| <b>Precaution:</b> <ul style="list-style-type: none"> <li>• Arilon will provide control but is not a quick knockdown agent.</li> </ul>  |                            |                                                                                                                                                             |
| USE RESTRICTIONS                                                                                                                        |                            |                                                                                                                                                             |
| 1) Refer to <b>Section 5.1</b> for additional product use restrictions.                                                                 |                            |                                                                                                                                                             |

## 7.0 STORAGE AND DISPOSAL

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food, or feed in storage.

**Pesticide Disposal:** Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

**Container Handling [plastic packets]:** Non-refillable container. Do not reuse or refill this container. Completely empty plastic packet into application equipment. Then offer for recycling if available, or dispose of empty packet in the trash, in a sanitary landfill, or by incineration.

**Container Handling [bags]:** Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in the trash, in a sanitary landfill, or by incineration.

**Container Handling [less than or equal to 50 pounds]:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [fiber drums with liners]:** Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.



## 8.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Syngenta Crop Protection, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Arilon®, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company

Actisol® is a trademark of Environmental Delivery Systems, Inc.

Micro Injector® is a trademark of Whitmire Micro-Gen Research Laboratories, Inc.

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|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| For non-emergency (e.g., current product information), call<br>Syngenta Crop Protection at 1-800-334-9481 |
|-----------------------------------------------------------------------------------------------------------|

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Arilon 1501 MAS 0920 AMEND APR2021- CL  
000100-01501.20210421.Arilon.AMEND.APR2021-CL

**CHRON**

Arilon 1501 MAS 0118 AMEND 0718 – sb – 7/2/2018  
000100-01501.20180702.ARILON.AMEND.JUL2018

Arilon 1501 MAS 0319 – sb – 3/11/2019

Arilon 1501 MAS 0319 AMEND 0519-CL – di - 5-16-19  
000100-01501.20190516.Arilon.AMEND.MAY2019-CL

Updated label with FID required changes

Arilon 1501 MAS 0920 - di - 10/8/2020  
Docu-proofed vs PPLS

Arilon 1501 MAS 0920 NOTIF FEB2021-HI - di - 2/24/2021  
000100-01501.20210224.Arilon.NOTIF.FEB2021-HI

Combining the 0920 FID approval and the Notification to add the LA termite statement to the front panel. Both actions were at the EPA simultaneously based off of the 0319 Master label.

Arilon 1501 MAS 0920 AMEND APR2021- HI-jd-4/21/21  
000100-01501.20210421.Arilon.AMEND.APR2021-HI

Revising the first aid statement to include “by mouth”-previous notification has been canceled

# Safety Data Sheet



## ARILON®

Date: 2/17/2016  
Replaces: 7/1/2015

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **ARILON®**  
Product No.: A20382A  
Use: Insecticide  
Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419  
Manufacturer Phone: 1-800-334-9481  
**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Oral: Category 4  
Inhalation: Category 4  
Specific Target Organ Toxicity: Repeated Category 1  
Signal Word (OSHA): Danger  
Hazard Statements: Harmful if swallowed  
Harmful if inhaled  
Causes damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements: Do not breathe mist, vapors, spray.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center, doctor or Syngenta if you feel unwell.





KEEP OUT OF REACH OF CHILDREN

# **TERMIDOR® FOAM TERMITICIDE & INSECTICIDE**

**ACTIVE CONSTITUENT: 0.05 g/kg FIPRONIL**

For control of subterranean termites, drywood termites and ants as specified in the  
Directions for Use Table.

NET CONTENTS: 500g, 567g

**DIRECTIONS FOR USE:****SHAKE WELL BEFORE USING**

| PEST                                                                                                                                                                                                                                                                           | SITUATION                                                                                                                                                               | RATE                                                                                                                                                                                                                                                                         | CRITICAL COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subterranean termites including but not limited to: <i>Coptotermes acinaciformis</i> , <i>Mastotermes darwiniensis</i> , <i>Nasutitermes spp.</i> , <i>Schedorhinotermes spp.</i><br>Drywood termites including: <i>Incisitermes spp.</i>                                      | Termite nests in trees, stumps, posts, power poles, mounds and wall cavities. Termite activity when nest cannot be located. eg active workings in timber, wall cavities | This product is a ready-to-use insecticide formulation. When dispensed, the formulation rapidly expands generating a dry foam with an expansion ratio of approximately 30:1, with 30g of product being dispensed in approximately 5 seconds producing about 1 litre of foam. | Shake well before using. Remove the outer cap and snap the actuator into place. Remove the finger pad cover. After using, replace the finger pad cover. Apply for approximately 10 - 30 seconds or until foam back flows per injection point. After application, hold the injector tip in place for approximately 5 sec to allow the product within the injector tube to dispense into the treatment area.<br>Drilling hole(s) may be required to gain access to the known or suspected gallery, harbourage or void. Care should be taken not to drill holes too close together or foam will emerge from other holes. It is recommended that drill holes be taped over when not in use. |
| Nuisance Ants, including but not limited to: Argentine ant ( <i>Linepithema humile</i> ), black house ant ( <i>Ochetellus glaber</i> ), meat ants ( <i>Iridomyrmex purpureus</i> ) coastal brown ants ( <i>Pheidole megacephala</i> ) pavement ants ( <i>Tetramorium sp.</i> ) | Ant nests and enclosed harbourages                                                                                                                                      |                                                                                                                                                                                                                                                                              | Shake well before using. Remove the outer cap and snap the actuator into place. Remove the finger pad cover. After using, replace the finger pad cover. Apply for approximately 5-10 seconds or until foam back flows. After application, hold the injector tip in place for approximately 5 sec to allow the product within the injector tube to dispense into the treatment area.<br>Drilling hole(s) may be required to gain access to the known or suspected harbourage or void. Care should be taken not to drill holes too close together or foam will emerge from other holes. It is recommended that drill holes be taped over when not in use.                                 |

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

## GENERAL INSTRUCTIONS

### TERMITE CONTROL

To optimise colony decline, treat termites each time significant activity is found. Aggregation containers such as bait boxes and bait stations can be useful in increasing the number of termites that can be treated.

Cessation of termite activity does not guarantee that a structure is protected from attack by other colonies in the area. Termite foaming is not designed as a stand-alone treatment, and should not be used as such. Therefore a continuous chemical treatment as per Australian Standard 3660.2, such as Termidor Residual Termiticide & Insecticide should be applied immediately following successful eradication of termite activity in the structure. It is important that a licensed Pest Control Operator carry out regular inspections at least annually.

### ANT CONTROL

To optimise colony decline, apply Termidor Foam wherever significant ant activity is found. Termidor Foam can be applied internally to known or suspected harbourages or voids. For longer term protection from future nuisance ant invasion, an external application of a residual liquid such as Termidor Termiticide and Insecticide is recommended.

### PRECAUTIONS

Keep out of reach of children. Do not spray directly onto humans, pets, exposed foods, food utensils or food preparation surfaces.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to aquatic life. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Dangerous to bees.

### STORAGE AND DISPOSAL

Keep in a cool place out of the sun, and out of the reach of children. Do not incinerate or puncture this can, even when empty. Dispose of can by putting in garbage, or leaving it at an appropriate metal recycling collection point.

### SAFETY DIRECTIONS

Wash hand after use

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. New Zealand 0800 764 766.

### SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet.

### CONDITIONS OF SALE

All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non excludable conditions or warranties of the Trade Practices Act 1974 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

APVMA Approval No. 70346/63237

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® = Registered trademark of BASF

Batch No:

Date of Manufacture:

BASF Australia Ltd  
ABN 62 008 437 867  
Level 12, 28 Freshwater Place  
Southbank VICTORIA 3006

FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY PHONE 1800 803 440 TOLL FREE-ALL HOURS-AUSTRALIA



# BAC-AZAP<sup>®</sup>

## Odor Encapsulation Technology

**Bac-Azap is perfect for eliminating dead animal, urine, skunk, smoke and other organically based odors.** Use it to eliminate garbage container and wall void odors and to remove grease build-up in drains.

The eco-benign formula of Bac-Azap is formulated to provide powerful odor elimination with a pleasant scent. Bac-Azap has a special blend of seven microbe strains that consume organic materials that cause odors. So for dumpsters, dead rodents, animal odors, urine, feces, vomit – even skunk – Bac-Azap will get the job done. It's also great for foaming into drains to keep commercial kitchens operating at peak performance.

- Biodegradable, salmonella-free, non-caustic, non-pathogenic, non-staining, low toxicity.
- Works on any organic odor.
- Stops odors in wall voids.
- Can be diluted and used in a fogging device to remove odor in confined areas, such as skunk odor in a crawl space.
- Removes grease build-up in drains.
  - Can be used with a foaming agent such as ProFoam<sup>®</sup> Platinum.
- Use it in both commercial and residential applications.
  - Not a pesticide.







## **Eliminates Organic Odor, Organic Stains • Removes Grease Build-Up in Drains**

### **Odor Encapsulation Technology**

*Biodegradable • Salmonella Free • Non-Caustic • Non-Pathogenic • Contains Active Live Bacteria*

#### **FIRST AID**

**IF SWALLOWED:** Drink 2 glasses of water or milk and induce vomiting by touching back of throat with finger. Get immediate medical attention. **IF IN EYES:** Immediately remove contact lenses if present, then flush eyes with gently running water for at least 15 minutes. Get immediate medical attention if irritation persists.

Contains Water (CAS # 7732-18-5), Ethoxylated Alcohol (CAS # 68015-67-8), Nonylphenoxypolyethoxyethanol (CAS # 68412-54-4), a blend of non-pathogenic and enzyme producing bacteria and a proprietary fragrance blend. Harmful if swallowed. Avoid eye contact and prolonged or repeated skin contact. Store in original, closed container away from oxidizers.

**V.O.C. CONTENT: 0.6% by weight**

**PRODUCT INFORMATION:** Bac-Azap is composed of multiple strains of specifically bred bacteria that directly attack odor causing organic matter, eliminating the source of odors. Bac-Azap actually captures and destroys the odors, instead of simply covering them up. Bac-Azap chemical formulation instantly binds odor-causing molecules. It is unsurpassed in controlling odors caused by urine, feces, vomit, grease, fats, proteins, decomposing plant and animal matter, garbage odors, pet odors and other organic matter. It is especially effective in eliminating skunk odors and removes grease build-up in drain lines.

Bac-Azap can be used in inedible product processing areas, non-processing areas, and/or exterior areas of official establishments operating under the Federal meat, poultry, shell egg grading and egg products inspection programs.

**NOTE:** Do not use on food contact or food preparation surfaces.

**DIRECTIONS FOR USE:** Bac-Azap is furnished full strength and ready to use for the toughest applications. In cases where the product is applied periodically as part of an

ongoing maintenance program, the product may be diluted with 1 or 2 parts water to maximize coverage.

**BATHROOMS & FLOOR DRAINS:** After cleaning, spray walls and fixtures with a 1+1 or 2+1 dilution (water + Bac-Azap) to prevent lingering odors. Pour 3 to 4 ounces of undiluted Bac-Azap directly into floor drains and urinals at the end of the day and allow to work overnight.

**FOAMING:** Bac-Azap may be applied as a foam using an applicator device designed to create foam solutions. Place undiluted Bac-Azap into the applicator; do not dilute. Bac-Azap is specially formulated to be used with ProFoam® Platinum foam concentrate and may be applied into drain lines, to organic debris under heavy kitchen equipment, into wall voids where organic materials such as dead rodents may cause odor concerns and onto sides of garbage cans and dumpsters.

**START-UP:** Apply 4 to 6 ounces to each drain where grease and organic debris is present. Continue daily for 5 to 10 days.

**MAINTENANCE:** Apply 4 to 6 ounces once or twice a week.

**DRAINS & FOOD PREPARATION AREAS:** For best results, apply product at end of day for overnight action. If drains are not used regularly, pour 2 to 3 gallons of warm water into drain opening to moisten drain surfaces before treatment. Use as a wash on all floors where organic debris may build up. In sewage overflow or pipe breakage situations, soak affected areas after removal of contaminants.

**WALL VOIDS:** Bac-Azap can be applied into wall voids or other inaccessible areas by spray injection or in conjunction with a foam applicator.

**CRAWL SPACES, BASEMENTS & ATTICS:** Spray onto surfaces or dirt in crawl spaces that may produce or retain odors from mold, mildew, sewage, wildlife and pets. Apply at the rate of 1 quart per 100 square feet.

Bac-Azap may also be fogged into confined areas, such as crawl spaces or attics using a fogging device. Dilute product 2+1 (water + Bac-Azap) and apply as a fog at a rate of 1 quart up to 1 gallon per 1000 cubic feet of confined space. NOTE: Do not fog Bac-Azap into areas where people or pets are present. Wait until fog has dissipated before re-entry.

**WALLS, FLOORS & CARPETS:** Begin by thoroughly cleaning areas with appropriate materials and methods. Spray Bac-Azap on all surfaces where odors might originate including wall surfaces, floors and carpets. Apply at the rate of 1 quart per 100 square feet of surface area (approximately 3 fluid ounces per square yard). NOTE: Although Bac-Azap is designed to be non-staining, always test surface for colorfastness in an inconspicuous area before treating entire surface.

Bac-Azap may also be fogged into confined areas, such as crawl spaces or attics using a fogging device. Dilute product 2+1 (water + Bac-Azap) and apply as a fog at a rate of 1 gallon per 1000 cubic feet of confined space. NOTE: Do not fog Bac-Azap into areas where people or pets are present. Wait until fog has dissipated before re-entry.

**COMPOSTING:** Mix 6 to 8 ounces Bac-Azap per gallon of water. Pour evenly over compost pile 2 times a week. One gallon can treat up to 50 cubic feet of compost. For best results, turn and mix compost pile while adding the Bac-Azap solution. To speed up the composting process, add 8 ounces Bac-Azap to 1 gallon of water-soluble fertilizer. Pour over compost pile as described above.

**REFUSE CONTAINERS, GARBAGE CANS & DUMPSTERS:** Once unit is empty, rinse it with water and liberally spray surfaces with Bac-Azap. If unit cannot be rinsed with water each time it is emptied, attempt to rinse with water daily or on a regular basis to remove excess soils and debris. Apply Bac-Azap to the point of surface wetness as often as possible, to control odors and remove organic matter.

#### **WARRANTY DISCLAIMER**

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **EXCEPT AS EXPRESSLY STATED HEREIN,**

**MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY AND EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

#### **Inherent Risks of Use**

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of use/application, all of which are beyond the control of the Manufacturer. The buyer/user assumes all such risks.

#### **Limitation of Remedies**

The sole and exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR DIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.



100 Nisus Drive • Rockford, TN 37853  
(800) 264-0870 • [www.nisuscorp.com](http://www.nisuscorp.com)

# SAFETY DATA SHEET



Health Emergencies: INFOTRAC® (800) 535-5053

## 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** BAC-AZAP®

**Recommended use of the chemical and restrictions on use:** Use as a deodorizer for most organic source odors.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 08/10/16

## 2. HAZARDS IDENTIFICATION

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                   | CAS No.   | Amount     |
|-----------------------------|-----------|------------|
| 1,2-Benzisothiazolin-3-one  | 2634-33-5 | 0.02-0.04% |
| Water                       | 7732-18-5 | 70-99%     |
| Other proprietary materials | Various   | 1-29.5%    |

The exact formulation is being withheld as a trade secret.

## 4. FIRST AID MEASURES

**Eye:** Rinse thoroughly with plenty of water, also under eyelids. If symptoms persist, contact call a physician.

**Skin:** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions, see a physician.

**Ingestion:** Rinse mouth immediately and drink plenty of water.

**Inhalation:** Move victim to fresh air.

**Most Important Symptoms:** Itch and/or rashes and/or hives

**Indication of immediate medical attention/special treatment:** Treat symptomatically

## 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate to area.

**Specific hazards arising from the chemical:** May cause sensitization of skin.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Avoid contact with eyes or skin.

**Methods and Materials for Containment and Cleaning Up:** Contain spill and pick up and transfer to labeled containers. Soak up with inert absorbent materials.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes and skin and clothing.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Conditions for Safe Storage, Including Any Incompatibilities:** Keep container closed. Strong acids and alkalis and strong oxidizing agents may react with product and inactivate bacterial cultures.

### Exposure Guidelines:

**This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.**

**Others:** None

**Engineering Controls:** Showers, eyewash, ventilation.

**Respiratory Protection:** No protective equipment needed under normal use. If irritation observed, ventilation may be required.

**Skin Protection:** Wear protective gloves and protective clothing.

**Eye Protection:** Wear safety goggles where splashing is possible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Clear to tan liquid with pleasant scent

**Physical State:** Liquid

**Odor Threshold:** Not established

**Vapor Density:** Not Determined

**Initial Boiling Point/Range:** 212°F (100°C)

**Solubility In Water:** Dispersible **Vapor Pressure:** Not determined

**Relative Density:** Not determined

**Evaporation Rate:** Not determined

**Melting/Freezing Point:** Not determined **pH:** 6.5-8.8

**Percent Volatile:** >90% average as water and other volatiles

**Octanol/Water Coefficient:** Not determined

**Solubility:** Water

**Decomposition Temperature:** Not determined

**Viscosity:** Not determined

**Flammability (solid, gas):** Not determined

**Flashpoint:** Not determined **Autoignition Temperature:** None

**Flammable Limits: LEL:** Not determined **UEL:** Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Material is not known to polymerize.

**Conditions to Avoid:** Exposure to extreme temperatures.

**Incompatible Materials:** Avoid strong oxidizing agents and strong alkali and acids which might deactivate the bacterial cultures.

**Hazardous Decomposition Products:** When heated to decomposition emits oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** No specific information available.

**Inhalation:** No specific information available.

**Eye:** No specific information available.

**Skin:** No specific information available.

**Chronic:** None known.

**Sensitization:** Itches, rashes, hives.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Germ Cell Mutagenicity:** Not expected to cause germ cell mutagenicity.

**Reproductive Toxicity:** Not expected to cause reproductive toxicity.

**Numerical Measures of Toxicity:**

Not applicable for this product.

**12. ECOLOGICAL INFORMATION**

This product is not expected to have any negative ecological effect.

**Ecotoxicity:**

No negative effect expected.

**Persistence and Degradability:** No data available for mixture.

**Bioaccumulative Potential:** No data available for mixture.

**Mobility in Soil:** No data available for mixture.

**Other Adverse Effects:** No data available for mixture.

**13. DISPOSAL CONSIDERATION**

Dispose in accordance with local, state and federal environmental regulations. This material is not deemed hazardous under 40 CFR 261.

**14. TRANSPORTATION INFORMATION**

**DOT Hazardous Materials Description:** Not Regulated (unless package contains a reportable quantity)

Not regulated under TDG, MEX, ICAO, IATA, IMDG/IMO, RID, ADR, ADN.

**15. REGULATORY INFORMATION**

**FIFRA:** This product is not regulated under FIFRA.

**CERCLA:** This product is not regulated under CERCLA. Report all spills in accordance with regulations

**SARA Hazard Category (311/312):** Acute Health

**SARA 313:** This product contains a chemical subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372)

**EPA TSCA Inventory:** All of the ingredients in this product are TSCA compliant.

**16. OTHER INFORMATION**

**HMIS Rating:**

Health = 1      Flammability = 0      Physical Hazard = 0

**SDS Revision History:** 05/01/15: New SDS  
03/15/20: Revised-I

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## NOTES



**NISUS<sup>®</sup>**  
C O R P O R A T I O N

100 Nisus Drive • Rockford, TN 37853 • 800-264-0870





# Bac-Azap<sup>®</sup> Safety Data Sheet

Issue Date: 21-Apr-2022

Revision Date: 02-Nov-2023

Version 2

## 1. IDENTIFICATION

### Product identifier

**Product Name** BAC-AZAP<sup>®</sup>

### Other means of identification

**SDS #** NIS-044

### Recommended use of the chemical and restrictions on use

**Recommended Use** Use as a deodorizer for most organic source odors.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

### Emergency telephone number

**Company Phone Number** Phone: (800)-264-0870  
Fax: (865) 577-5825  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** White-Straw liquid

**Physical state** Liquid

**Odor** Fresh laundry/detergent

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health.

## 4. FIRST AID MEASURES

### Description of first aid measures

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin Contact</b> | Wash off immediately with plenty of water for at least 15 minutes.                                                   |
| <b>Inhalation</b>   | Remove to fresh air.                                                                                                 |
| <b>Ingestion</b>    | Clean mouth with water and drink afterwards plenty of water.                                                         |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Hazardous combustion products** Carbon oxides.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong acids, alkalis, and strong oxidizing agents may react with product and inactivate bacterial cultures.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

#### **Engineering Controls**

Showers. Eyewash stations. Ventilation systems.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face Protection**

Wear safety goggles or glasses where splashing is possible. Refer to 29 CFR 1910.133 for eye and face protection regulations.

#### **Skin and Body Protection**

Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                    |                       |                         |
|-----------------------|--------------------|-----------------------|-------------------------|
| <b>Physical state</b> | Liquid             | <b>Odor</b>           | Fresh laundry/detergent |
| <b>Appearance</b>     | White-Straw liquid | <b>Odor Threshold</b> | Not determined          |
| <b>Color</b>          | White-straw        |                       |                         |

| <u>Property</u>                         | <u>Values</u>     | <u>Remarks • Method</u> |
|-----------------------------------------|-------------------|-------------------------|
| pH                                      | 7-8               |                         |
| Melting point / freezing point          | No data available |                         |
| Initial boiling point and boiling range | No data available |                         |
| Flash point                             | No data available |                         |
| Evaporation Rate                        | Not determined    |                         |
| Flammability (Solid, Gas)               | Not determined    |                         |
| Flammability Limit in Air               |                   |                         |
| Upper flammability or explosive limits  | No data available |                         |
| Lower flammability or explosive limits  | No data available |                         |
| Vapor Pressure                          | Not determined    |                         |
| Vapor Density                           | No data available |                         |
| Relative Density                        | Not determined    |                         |
| Water Solubility                        | Soluble in water  |                         |
| Solubility in other solvents            | Not determined    |                         |
| Partition Coefficient                   | Not determined    |                         |
| Autoignition temperature                | No data available |                         |
| Hyphen                                  | Not determined    |                         |
| Kinematic viscosity                     | Not determined    |                         |
| Dynamic Viscosity                       | Not determined    |                         |
| Explosive Properties                    | Not determined    |                         |
| Oxidizing Properties                    | Not determined    |                         |

### Other information

|                       |                 |
|-----------------------|-----------------|
| <b>Liquid Density</b> | 8.3-8.4 lbs/gal |
|-----------------------|-----------------|

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

Extreme temperatures.

### Incompatible materials

Strong acids, alkalis, and strong oxidizing agents may react with product and inactivate bacterial cultures.

### Hazardous decomposition products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

#### **Eye Contact**

Avoid contact with eyes.

#### **Skin Contact**

Avoid contact with skin.

#### **Inhalation**

Do not inhale.

#### **Ingestion**

Do not ingest.

### Component Information

| Chemical name                           | Oral LD50            | Dermal LD50          | Inhalation LC50 |
|-----------------------------------------|----------------------|----------------------|-----------------|
| 1,2-Benzisothiazolin-3-one<br>2634-33-5 | = 1020 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | -               |

### Symptoms related to the physical, chemical and toxicological characteristics

#### **Symptoms**

Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Carcinogenicity**

Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

Not available

### Persistence/Degradability

Not determined.

### Bioaccumulation

There is no data for this product.

### Mobility

Not determined

### Other adverse effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT

Not regulated

### IATA

Not regulated

### IMDG

Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

| Chemical name              | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AIIC |
|----------------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| 1,2-Benzisothiazolin-3-one | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**16. OTHER INFORMATION**

| <b><u>NFPA</u></b> | <b>Health hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special hazards</b>     |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
|                    | -                     | -                   | -                       | -                          |
| <b><u>HMIS</u></b> | <b>Health hazards</b> | <b>Flammability</b> | <b>Physical hazards</b> | <b>Personal Protection</b> |
|                    | 1                     | 0                   | 0                       | Not determined             |

**Issue Date:** 21-Apr-2022  
**Revision Date:** 02-Nov-2023  
**Revision Note:** Reformulation

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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Bifenthrin | GROUP 3A | INSECTICIDE



# BIFEN L/P

## Insecticide Granules

Only for sale to, use, and storage by commercial applicators.

For use to control Ants (including Imported Fire Ants), Chinch Bugs, Fleas, Mole Crickets, Ticks and other insect pests on lawns in landscaped areas and perimeters around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

Use areas include but are not limited to: lawns and around flower gardens, flower beds, around/along perimeters and foundations of houses and other structures, around mulch beds, along fence lines, and around decks and decking.

For outdoor use only.

| Active Ingredient:     | By Wt. |
|------------------------|--------|
| Bifenthrin*.....       | 0.2%   |
| Other Ingredient:..... | 99.8%  |
| Total.....             | 100.0% |

\*Cis isomers 97% minimum, trans isomers 3% maximum.

**KEEP OUT OF REACH  
OF CHILDREN**

**CAUTION**

(See other panels for additional  
precautionary information)

### FIRST AID

#### If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® (866) 897-8050 for emergency medical treatment information.

**Note to Physician** - This product is a pyrethroid. If large amounts have been ingested, milk cream and other digestible fats and oils may increase absorption and should be avoided.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**NET CONTENTS: 25 Lbs.**

EPA Reg. No. 53883-124 (A) EPA Est. No. 5905-GA-01

(B) EPA Est. No. 88746-GA-01

First letter of lot# corresponds to EPA Est. # where product was produced



Manufactured by:

**Control  
Solutions Inc.**

5903 Genoa-Red Bluff, Pasadena, TX 77507  
A member of Adama  
Consumer and Professional Solutions

EPA 072121



ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or lawns or grounds.

Do not apply more than 0.2 lb. Bifenthrin per acre per application on residential use sites (i.e., around private homes, apartment buildings, condominiums, non-agricultural outbuildings, non-commercial greenhouses, pre-schools or day care facilities). May be applied at up to 0.4 lb. a.i. per acre per application on non-residential use sites (i.e., around institutional, public, commercial or industrial buildings; parks; recreational areas or athletic fields).

Do not broadcast apply more than 0.4 lbs. A.I. (200 lbs. of Bifen L/P Insecticide Granules) per Acre per year.

For applications at rates above 0.34 lbs. Bifenthrin/A, users must water the treated area immediately after application.

Not for use on golf courses, sod farms, nurseries, in commercial greenhouses or on grass grown for seed.

Apply this product directly to the lawn or garden area.

Water treated area as directed on this label. Do not water to the point of run-off.

Do not apply when the wind speed is greater than 15 mph.

Do not make applications during the rain.

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoir, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not apply or irrigate to the point of runoff.

Treat surfaces to ensure thorough coverage but avoid runoff.

To treat insects harbored in voids and crack-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).

Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Do not allow to enter indoor or outdoor drains. *No permita la entrada a desagües internos o externos.*



Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

**Resistance Management:**

For resistance management, this product contains a Group 3A insecticides. Any insect population may contain individuals naturally resistant to this product and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
  - o Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
  - o Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
  - o Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
  - o For further information or to report suspected resistance contact Control Solutions, Inc. at 800-242-5562 or at [www.controlsolutionsinc.com](http://www.controlsolutionsinc.com)."

LAWN & PERIMETER APPLICATIONS

Use appropriate application equipment to broadcast Bifen L/P Insecticide Granules to achieve thorough coverage of the area being treated.

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, do make a single repeat application of Bifen L/P Insecticide Granules if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Application Rates for Lawn and Perimeter

Under normal conditions, the treatment rates stated in the table below will control the pests listed in the table. To control each of the pests listed in this table, Bifen L/P Insecticide Granules may be applied at up to 0.4 lb AI/A, at the discretion of the applicator. For residential lawn applications, use a maximum of 0.2 lb of active ingredient per acre per application.

| Pest                                                                                                                                                                                                                                                                                   | Application Rate<br>Bifen L/P Insecticide Granules |                                 | Active Ingredients lbs.<br>per Acre |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------|-------------------------------------|
| Armyworms <sup>1</sup> , Cutworms <sup>1</sup> , Sod Webworm <sup>1</sup>                                                                                                                                                                                                              | 50 lbs. per acre                                   | 1.15 lbs. per 1000 sq. ft.      | 0.1 lbs. AI/A                       |
| Annual Bluegrass Weevil ( <i>Hyperodes</i> ) (Adult) <sup>2</sup> , Billbugs (Adults) <sup>3</sup> , Black Turfgrass Ataenius (Adult) <sup>4</sup> , Leafhoppers, Mealy bugs                                                                                                           | 50 - 100 lbs. per acre                             | 1.15-2.3 lbs. per 1000 sq. ft.  | 0.1-0.2 lbs. AI/A                   |
| Ants, Centipedes, Chinch Bugs <sup>5</sup> , Fleas (Larvae) <sup>6</sup> , Fleas (Adult), Imported Fire Ants (Adult) <sup>7</sup> , Imported Fire Ants (Mounds) <sup>7</sup> , Millipedes, Mole Cricket (Adult) <sup>8</sup> , Mole Cricket (Nymph) <sup>9</sup> , Ticks <sup>10</sup> | 100-200 lbs. per acre                              | 2.3 - 4.6 lbs. per 1000 sq. ft. | 0.2-0.4 lbs. AI/A                   |
| Pillbugs<br>Sowbugs<br>European Crane Flies                                                                                                                                                                                                                                            | 200 lbs. per acre                                  | 4.6 lbs.per 1000 sq. ft.        | 0.4 lbs. AI/A                       |

**<sup>1</sup>Armyworms, Cutworms, and Sod Webworms:** For best results water the treated area with up to 0.1 inches of water to activate (release from the granule) the insecticide.

**<sup>2</sup>Annual Bluegrass Weevil (*Hyperodes*) adults:** Treatment of this species should be performed as they travel into grass areas and away from their overwintering sites. Travel usually starts when *Forsythia* is in full bloom and ends when *Cornus florida* (flowering dogwood) is in full bloom. For additional detailed information concerning treatment timing, check with your State Cooperative Extension Service.

**<sup>3</sup>Billbug adults:** Treatment of adult billbugs should be made when they are first noticed in April and May. To optimize treatment timing, degree day models have been developed. For detailed information particular to your region, check with your State Cooperative Extension Service. Spring treatments for billbug adults will also offer control of over-wintered chinch bugs in temperate climates.

**<sup>4</sup>Black Turfgrass Ataenius adults:** To control the 1st and 2nd generation of Black Turfgrass Ataenius adults, respectively, treatments should take place in May and July. Time the May treatment to match with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhoutte*) and horse chestnut (*Aesculus hippocastanum*) . Time the July treatment to match with the blooming Rose of Sharon (*Hibiscus syriacus*) .

**<sup>5</sup>Chinch Bugs:** Commonly found in thatch layer, Chinch bugs attack the base of grass plants. Directly following treatment, water the treated area with up to 0.25 inches of water to activate (release from the granule) the insecticide. Chinch bugs can be hard pests to control in grasses and to control populations that contain both nymphs and adults during the summer, higher applications rates may be necessary.

**<sup>6</sup>Flea larvae:** Immature fleas mature in shaded areas accessible to pets and other animals. To activate (release from the granule) the insecticide, water the treated areas with up to 0.5 inches of water directly following application.

**<sup>7</sup>Imported Fire ants:** The best control will be achieved by using broadcast treatments in combination with mound drenches. It is critical to water before treatment if the soil is dry. Apply up to 0.4 lb AI/A when making broadcast treatments. Treat mounds with a product that is registered with the EPA and properly labeled for control of fire ant mounds or by applying ½ cup of Bifen L/P Insecticide Granules per mound and then drenching the mound with 1 to 2 gallons of water. To break their apex and permit the insecticide solution to flow inside the ant tunnels, the mounds should be treated with adequate force. A four-foot diameter circle around the mound should also be treated. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours. The queen will be killed withing 24 hours of application. Six months residual activity for control of foraging Imported Fire Ants and newly mated Fly-In Queens will be provided by applying 125 lbs./acre of Bifen L/P Insecticide Granules

**<sup>8</sup>Mole Cricket adults:** Since the preferred grass areas are susceptible to constant invasion in early spring by the active adult stage, it can be hard sustain control of adult mole crickets. It is ideal to treat the areas as late in the day as possible and water directly following application with up to 0.5 inches of water. To ensure maximum contact when soil is dry, it is necessary to irrigate prior to treatment to bring the adult mole crickets closer to the soil surface. To obtain the best possible control of potential nymphal populations, the grass areas preferred by adult mole crickets should be treated at peak hatch stage. (See below).

**<sup>9</sup>Mole Cricket nymphs:** Treat grass areas that are preferred by adult mole crickets in the spring just before peak egg hatch. Young nymphs are more vulnerable to insecticidal treatment at this stage because they are close to the soil surface where the insecticide is most concentrated and thereby providing the most efficient control. For larger more damaging nymphal stages later in the year, it may be necessary to use higher application rates more frequent. It is ideal to treat the areas as late in the day as possible and water immediately after application with up to 0.5 inches of water. To ensure maximum contact when soil is dry, it is necessary to irrigate prior to treatment to bring the adult mole crickets closer to the soil surface.

**<sup>10</sup>Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever):** Make application to the entire area where contact with ticks may occur. Do not make spot treatments. Treat the whole area where contact to ticks may occur. When treating areas with dense ground cover or heavy leaf litter use higher application rates. Ticks may be reintroduced from surrounding areas on host animals. Do not allow public use of treated areas during application. **Deer ticks (*Ixodes sp.*)** have a four-stage life cycle spanning 2 years. To control larvae and nymphs that live in the soil and leaf litter, treatments should be made in mid to late-spring. **American dog ticks** invade suburban settings in areas where residences and dwellings are constructed on former fields or wooded areas. These pests normally gather by paths or roadways where they are likely to find a host. To control tick larvae, nymphs and adults, treatments should take place, as needed, from mid spring to early fall.

**Perimeter Treatment:** Treat the ground area 5 to 10 feet wide around and adjacent to the structure.

**Boundary Treatment:** Treat mulch areas, soil areas, vegetation areas, ornamental gardens, planter areas, pavement crevices and fence lines.

|                                         |               | Pounds of Bifen L/P Insecticide Granules for Perimeter Applications<br>Linear Distance (Feet) Around Structure |     |      |      |      |      |      |      |
|-----------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------|-----|------|------|------|------|------|------|
| Appl. Rate:<br>Lbs. per 1000<br>sq. ft. | Band<br>Width | 100                                                                                                            | 150 | 200  | 250  | 300  | 400  | 500  | 1000 |
| 2.3                                     | 5 feet        | 1.3                                                                                                            | 1.9 | 2.5  | 3.0  | 3.6  | 4.8  | 5.9  | 11.7 |
| 2.3                                     | 10 feet       | 3.0                                                                                                            | 4.2 | 5.3  | 6.5  | 7.6  | 9.9  | 12.2 | 23.7 |
| 3.0                                     | 5 feet        | 1.7                                                                                                            | 2.5 | 3.3  | 3.9  | 4.7  | 6.3  | 7.7  | 15.2 |
| 3.0                                     | 10 feet       | 3.9                                                                                                            | 5.4 | 6.9  | 8.5  | 9.9  | 12.9 | 15.9 | 30.9 |
| 3.5                                     | 5 feet        | 2.0                                                                                                            | 2.9 | 3.8  | 4.5  | 5.4  | 7.2  | 8.9  | 17.5 |
| 3.5                                     | 10 feet       | 4.5                                                                                                            | 6.3 | 8.0  | 9.8  | 11.4 | 14.9 | 18.3 | 35.5 |
| 4.6                                     | 5 feet        | 2.6                                                                                                            | 3.8 | 5.0  | 6.0  | 7.2  | 9.6  | 11.8 | 23.4 |
| 4.6                                     | 10 feet       | 6.0                                                                                                            | 8.4 | 10.6 | 13.0 | 15.2 | 19.8 | 24.4 | 47.4 |

**Note:** The amounts of Bifen L/P Insecticide Granules listed in the above table are based on the total area being treated. This area is determined by multiplying the linear distance by the band width and then adding to that value the area of a circle whose radius is equal to the band width (to account for the area treated at the four corners of a rectangular structure).

**Fire ant mound treatment:** Treat using ½ cup of Bifen L/P Insecticide Granules per mound and then flood the mound with 1 to 2 gallons of water using enough force to allow the insecticide to flow into the ant tunnels. Apply in cool weather (65 to 80°F) or in early morning or late evening hours to achieve the best results. Treat new mounds as they appear. After use with insecticide, food utensils such as teaspoons and measuring cups must not be used for food purposes.

INDUSTRIAL NON-AGRICULTURAL APPLICATIONS

(Including, but not limited to, Industrial Sites, Parks, Ball Fields and Cemeteries)

**Broadcast Applications**

Broadcast 2.3 to 4.6 lbs. Bifen L/P Insecticide Granules per 1000 sq. ft. (0.2 to 0.4 lbs. ai/Acre) uniformly to control actively foraging ants (including Imported Fire Ants) . For additional rate recommendations see comments section under **Lawn & Perimeter Applications**.

**Pad Mounted Electrical Sites**

Uniformly apply 1.0 to 1.5 Tablespoons (0.06 to 0.09 lbs.) of Bifen L/P Insecticide Granules per 4 sq. ft. of mounting pad to decrease or prevent ant mound building activity on electrical pads. If partly or totally filled with soil excavated by resident ants, remove excess soil and level before treating existing transformers.

**Food utensils such as tablespoons must not be used for food purposes after use in measuring pesticides.**

**Note:** During the cooler months, electrical sites seem to be more attractive to ants. Apply in the Fall or early Spring for best results.

Spreader Settings for Broadcast Applications

|                                   |                       | Spreader Settings   |               |                     |               |
|-----------------------------------|-----------------------|---------------------|---------------|---------------------|---------------|
| Equipment                         | Ground Speed<br>(MPH) | 100 pounds per acre |               | 200 pounds per acre |               |
| Hand Pushed                       |                       | Once<br>Over        | Twice<br>Over | Once<br>Over        | Twice<br>Over |
| LESCO ROTARY                      | 3                     | B + ¼               | A + ½         | C + ½               | B +¼          |
| Scotts R-8A-1 Rotary              | 3                     | G                   | E             | Not Rec.            | G             |
| Gandy Models<br>(42, 36, 30, 24") | 3                     | 12                  | 10.5          | 16                  | 12            |
| Spyker (all models)               | 3                     | 2.6                 | 2             | 3.1                 | 2.6           |
| Equipment Drawn<br>(PTO=540 RPM)  |                       | Once<br>Over        | Twice<br>Over | Once<br>Over        | Twice<br>Over |
| Gandy Models<br>(42, 36, 30, 24") | 4.5                   | 14                  | 11.5          | 19                  | 14            |
| Gandy 6500 Series                 | 4.5                   | 15                  | 11            | 20                  | 15            |
| Gandy 10T Series                  | 5.0                   | 16.5                | 12            | 24                  | 16.5          |
| Herd GT-77                        | 4.0                   | --                  | --            | 8-H                 | --            |
| Herd GT-77                        | 8.0                   | 8-H                 | --            | --                  | 8-H           |
| Lely 2.3202.000.1                 | 4.5                   | 2                   | 1             | 3.5                 | 2             |
| Lely Model L-400                  | 4.5                   | NR                  | NR            | 2                   | NR            |
| Vicon PS402                       | 4.5                   | 10                  | 7             | 16                  | 10            |
| Vicon PS1002T                     | 4.5                   | 13                  | 9             | 21                  | 13            |

**NR= Not recommended**

**Note:** Spreader should be calibrated from time to time to make certain that mechanical wear or other factors have not changed the flow rate of Bifen L/P Insecticide Granules. Instructions for calibration are included in the Owner's Manual for the spreader. These spreader settings are presented as starting points to calibration of each spreader. The technician should observe the amount of product applied to a known area and adjust settings further if necessary to ensure the correct rate of application.

STORAGE AND DISPOSAL

**Do not contaminate water, food, or feed by storage or disposal.**

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use close tightly.

**In case of spill:** Avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

**To confine spill:** Cover to prevent dispersal. Place damaged package in a holding container and identify contents.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, or rinsate is a violation of Federal Law. Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

**Container Disposal:** Non-refillable container. Do not reuse or refill this container. Empty container through use according to label instructions. Offer for recycling, if available. If recycling is not available; then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY STATEMENT

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent allowed by law, Control Solutions, Inc. shall not be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein, Control Solutions, Inc. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold including, but not limited to merchantability fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence , strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Control Solutions, Inc. election, the replacement of this product.



**Control Solutions Inc.**  
5903 Genoa-Red Bluff, Pasadena, TX 77507  
A member of Adama Consumer and Professional Solutions



# SAFETY DATA SHEET

## Bifen L/P

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Revision Date: May 30, 2017

### SECTION 1: IDENTIFICATION

**Product Name:** Bifen L/P  
**EPA Registration No.:** 53883-124  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** Pyrethroid  
**Chemical Name of Active Ingredient(s):** Bifenthrin: 2-Methyl-3-phenylphenyl)methyl (1S,3S)—[(Z)-2-chloro-3,3,3-trifluoroprop-1-enyl]-2,2-dimethylcyclopropane-1-carboxylate  
**Manufactured for:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Tan granule with a slightly musty odor.

**OSHA HCS CLASSIFICATION (29 CFR 1910.1200)**

|                                                    |             |
|----------------------------------------------------|-------------|
| Carcinogenicity                                    | Category 1A |
| Specific Target Organ Toxicity – Repeated Exposure | Category 2  |

**Signal Word:** DANGER



**Hazard Statement(s):** May cause cancer  
May cause damage to organs (lungs) through prolonged or repeated exposure.

**Precautionary Statement(s):**

**Prevention:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear face protection.  
Do not breathe dust.

**Response: IF EXPOSED OR CONCERNED:** Get medical advice/attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

1.0% Acute oral toxicity  
1.0% Acute dermal toxicity  
100.0% Acute Inhalation toxicity

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name      | CAS Number | Weight %      |
|--------------------|------------|---------------|
| Bifenthrin         | 82657-04-3 | 0.2%          |
| Sand - (contains)  | None       | 94.0 – 100.0% |
| Crystalline silica | 14808-60-7 | <1.0%         |

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

**SECTION 4: FIRST AID MEASURES**

|                     |                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF IN EYES:</b>  | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.                                        |
| <b>IF ON SKIN:</b>  | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.                                                                                                          |
| <b>IF INHALED:</b>  | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                           |
| <b>IF INGESTED:</b> | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

**Note to Physician:** This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.

**Most important symptoms/effects, acute and delayed:** Acute symptoms may include mild, mechanical irritation to eyes.

**SECTION 5: FIRE-FIGHTING MEASURES**

|                                                        |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media:</b>                   | Use appropriate extinguishing media for surrounding fire.                                                                                                                                                                                                                                                                                               |
| <b>Unsuitable Extinguishing Media:</b>                 | Heavy water stream                                                                                                                                                                                                                                                                                                                                      |
| <b>Hazardous Combustion Products:</b>                  | Thermal decomposition may produce oxides of carbon, nitrogen, calcium and magnesium.                                                                                                                                                                                                                                                                    |
| <b>Special Protective Equipment &amp; Precautions:</b> | Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). |
| <b>Unusual Fire &amp; Explosion Hazards:</b>           | None known                                                                                                                                                                                                                                                                                                                                              |

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions:</b>      | See Section 8 for personal protection equipment.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Environmental Precautions:</b> | Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.                                                                                                                                                                                                                                                                                         |
| <b>Methods for Containment:</b>   | Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Avoid inhalation of dust. Avoid actions that cause dust to become airborne.                                                                                                                                                                                                                                                           |
| <b>Methods for Clean-up:</b>      | Uncontaminated product may be placed in a container for use according to label directions. Do not put spilled material back in the original container. Avoid actions that cause dust to become airborne during dry clean-up such as sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Pick up wash liquid with additional absorbent and place in a disposable container. |
| <b>Other Information:</b>         | None known                                                                                                                                                                                                                                                                                                                                                                                                              |

**SECTION 7: HANDLING AND STORAGE**

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b>                      | RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. |
| <b>Storage:</b>                       | <b>See pesticide label for full information on product storage.</b> Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.                                                                                                                                                                                                                                            |
| <b>Storage Temperature (Min/Max):</b> | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Product Incompatibilities:</b>     | None known                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

**Exposure Guidelines:**

| COMPONENT                   | OSHA PEL                                                                                                                                  | ACGIH TLV                                        | NIOSH REL                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|
| Crystalline Silica (quartz) | 10 mg/m <sup>3</sup> (TWA)<br>%SiO <sub>2</sub> + 2 (respirable dust)<br>30 mg/m <sup>3</sup> (TWA)<br>%SiO <sub>2</sub> + 2 (total dust) | 0.025 mg/m <sup>3</sup> TWA<br>(respirable dust) | 0.05 mg/m <sup>3</sup> TWA<br>(respirable dust) |

|                              |                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Controls:</b> | Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory Protection:</b>    | In areas of poor ventilation or where exposure limits are exceeded, use a NIOSH approved respirator with cartridges/canisters approved for respirable crystalline silica.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Eye Protection:</b>            | Chemical goggles or safety glasses and full-face shield.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protective Gloves:</b>         | Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Other Protective Clothing:</b> | Long-sleeved shirt, long pants and shoes plus socks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>General Safety Measures:</b>   | Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. |

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                      |                                         |                         |
|---------------------------------|----------------------|-----------------------------------------|-------------------------|
| <b>Appearance:</b>              | Tan granules (solid) | <b>Upper/Lower Flammability Limits:</b> | Not determined          |
| <b>Odor:</b>                    | Slight musty odor    | <b>Vapor Pressure:</b>                  | Not applicable          |
| <b>Odor Threshold:</b>          | Not determined       | <b>Vapor Density:</b>                   | Not applicable          |
| <b>pH (1% dispersion):</b>      | Not applicable       | <b>Bulk Density:</b>                    | 100 lbs/ft <sup>3</sup> |
| <b>Melting /Freezing Point:</b> | Not determined       | <b>Solubility:</b>                      | Not determined          |
| <b>Boiling Point/Range:</b>     | Not determined       | <b>Partition Coefficient:</b>           | Not determined          |
| <b>Flash Point:</b>             | Not determined       | <b>Auto-ignition Temperature:</b>       | Not determined          |
| <b>Evaporation Rate:</b>        | Not determined       | <b>Decomposition Temperature:</b>       | Not determined          |
| <b>Flammability:</b>            | Not applicable       | <b>Viscosity:</b>                       | Not applicable          |

#### SECTION 10: STABILITY AND REACTIVITY

|                                            |                                                                  |
|--------------------------------------------|------------------------------------------------------------------|
| <b>Reactivity:</b>                         | No hazardous reactivity known.                                   |
| <b>Chemical Stability:</b>                 | Stable under normal storage and handling conditions.             |
| <b>Possibility of Hazardous Reactions:</b> | No potential for hazardous reactions known.                      |
| <b>Conditions to Avoid:</b>                | None known                                                       |
| <b>Incompatible Materials:</b>             | None known                                                       |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may produce oxides of carbon and nitrogen. |

#### SECTION 11: TOXICOLOGICAL INFORMATION

|                                    |                                                                            |
|------------------------------------|----------------------------------------------------------------------------|
| <b>Likely Routes of Exposure:</b>  | Eye contact, Skin contact, Inhalation, Ingestion                           |
| <b>Symptoms of Exposure:</b>       | Mild mechanical irritation of eyes. Silicosis of the lungs or lung cancer. |
| <b>Oral LD<sub>50</sub>:</b>       | >4,900 mg/kg (rat)(Estimated based upon component data)                    |
| <b>Dermal LD<sub>50</sub>:</b>     | >2,000 mg/kg (rat)(Estimated based upon component data)                    |
| <b>Inhalation LC<sub>50</sub>:</b> | Not determined                                                             |
| <b>Eye Irritation/Damage:</b>      | Not anticipated to cause eye irritation based upon component data.         |
| <b>Skin Corrosion/Irritation:</b>  | Not anticipated to cause skin irritation based upon component data.        |
| <b>Skin Sensitization:</b>         | Not anticipated to cause skin sensitization based upon component data.     |

|                                     |                                                                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chronic/Subchronic Toxicity:</b> | Prolonged inhalation of respirable crystalline silica may be harmful. May cause damage to organs (lungs) through prolonged or repeated exposure. |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and the thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects.

**Mutagenicity:**

No data available

**Reproductive Toxicity:**

No data available

**Neurotoxicity:**

No data available

**Target Organs:**

Lungs (respirable crystalline silica)

**Aspiration Hazard:**

Not an aspiration hazard.

**Carcinogenicity:**

Respirable Crystalline Silica (RCS) may cause cancer. Sand is a naturally occurring mineral complex that contains varying quantities of quartz (crystalline silica). In its natural bulk state, sand is not a known health hazard. Sand may be subjected to various natural or mechanical forces that produce small particles (dust) which may contain respirable crystalline silica (particles less than 10 micrometers in aerodynamic diameter). Repeated inhalation of respirable crystalline silica (quartz) may cause lung cancer according to IARC and NTP.

| Chemical Name                 | ACGIH | IARC    | NTP                    | OSHA |
|-------------------------------|-------|---------|------------------------|------|
| Respirable crystalline silica |       | Group 1 | Known Human Carcinogen |      |

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems

**ECOTOXICITY DATA:**

Data presented below is on the bifenthrin technical product.

**Fish Toxicity:***S. gairdneri*: 96-hour LC<sub>50</sub> = 0.1 mg/L**Aquatic Invertebrate Toxicity:***Daphnia magna*: 96-hour EC<sub>50</sub> = 0.65 mg/L**Aquatic Plant Toxicity:***P. subcapitata*: EC<sub>50</sub> = 11.04 mg/L**Avian Toxicity:**Bobwhite quail: oral LD<sub>50</sub> = 1800 mg/kg**Honeybee Toxicity:**Oral LD<sub>50</sub> = 0.39 µg/bee**ENVIRONMENTAL EFFECTS:****Persistence and Degradability:**

No data available

**Bioaccumulation:**

No data available

**Mobility:**

No data available

**Other Adverse Effects:**

No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

- Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.
- Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.
- RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION**

- DOT (Ground):** Not regulated
- IMDG (Sea):** UN3077, Environmentally hazardous substance, solid, n.o.s. (Bifenthrin), 9, PGIII, Marine Pollutant
- IATA (Air):** UN3077, Environmentally hazardous substance, solid, n.o.s. (Bifenthrin), 9, PGIII

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under FIFRA:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** None

**Section 313 –** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % |
|---------------|------------|----------|
| Bifenthrin    | 82657-04-3 | 0.2%     |

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of Finished Product |
|---------------|------------|----|------------------------------|
| None listed   |            |    |                              |

**CALIFORNIA PROPOSITION 65:**

| Chemical Name                 | CAS Number | Prop 65 Category(ies) |
|-------------------------------|------------|-----------------------|
| Respirable Crystalline Silica | 14808-60-7 | Cancer                |

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

| Chemical Name      | New Jersey | Massachusetts | Pennsylvania |
|--------------------|------------|---------------|--------------|
| Bifenthrin         | X          |               |              |
| Crystalline silica | X          | X             | X            |

**SECTION 16: OTHER INFORMATION**

|             |                         |                       |                      |                               |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 1 | <b>Flammability</b> 0 | <b>Instability</b> 0 | <b>Special Hazards</b> – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

**Disclaimer:** Control Solutions, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Control Solutions, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** May 30, 2017  
**Document Superseded:** September 9, 2014  
**Revision Note:** Updated to format and most sections



# BORA-CARE<sup>®</sup>

## Termiticide, Insecticide, Fungicide

**Bora-Care is a termite treatment that is applied to wood and other construction materials.**

Bora-Care replaces soil termiticides in new construction and serves as a primary termite treatment on the HUD-99-A form. Bora-Care can also be used as a remedial treatment to treat homes that have been infested by termites, beetles or carpenter ants. Once Bora-Care is applied to the wood, it remains in the wood for the life of the structure, delivering long-term residual protection. It will protect interior wood as well as exterior wood that remains painted or sealed.

**Bora-Care's proprietary borate-based glycol formulation improves penetration to help kill and prevent infestation from:**

- termites
- carpenter ants
- wood boring beetles
- decay fungi



Applying Bora-Care to a structure is a sustainable choice for builders, and they can earn green points in many green building programs by using Bora-Care for their termite pretreatments. Bora-Care also offers a 30-year damage repair warranty to Pest Management Professionals who register their homes and inspect them annually.



**More than 2,000,000 homes have been treated with Bora-Care.**

**Opportunity knocks on wood.**

Wood is the most expensive component of a home—protect it with Bora-Care.





# BORA-CARE®

TERMITICIDE, INSECTICIDE AND FUNGICIDE

## Termiticide, Insecticide and Fungicide Concentrate

For the Prevention and Control of:

- Subterranean Termites • Formosan Termites • Drywood Termites • Carpenter Ants
- Listed Wood Destroying Beetles • Fungi (Rot) • Algae

For use in and around Residential, Institutional and Commercial Structures including Homes, Apartments, Garages, Museums, Public and Private Institutions, Schools, Hotels, Hospitals, Kennels, Stables, Farm Buildings, Trucks, Trailers, Warehouses and Non-Food Areas of Supermarkets, Restaurants and Food Processing Plants.

### Active Ingredient:

Disodium Octaborate Tetrahydrate (CAS No. 12280-03-4) .. 40%

Other Ingredients ..... 60%

Total ..... 100%

EPA Reg. No. 64405-1

EPA Est. 64405-TN-1

## Keep Out of Reach of Children CAUTION

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**WEAR:** Long-sleeved shirt & long pants, socks, shoes and chemical-resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride (PVC), Viton or others listed in category C on an EPA -chemical-resistance category selection chart).

#### Environmental Hazards

*(For product in containers less than 5 gallons)*

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

*(For product in containers 5 gallons or greater)*

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state water board or regional office of the EPA.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### Notice

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read **Warranty Disclaimer** and **Limitation of Remedies** statements found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer** and **Limitation of Remedies**.

#### Use Restrictions

Do not use in edible product areas of food processing plants or on countertops and other surfaces where food is prepared. Do not use in serving areas where food is exposed. Do not contaminate feed, water or food. Do not enter or allow others to enter or occupy treated areas until spray has been absorbed into the wood. Treated areas must not be occupied during application.

#### Phytotoxicity

This product may be phytotoxic to plants. When treating around the exterior of structures, cover and protect shrubbery and plants that may be potentially exposed to this product, when applied in accordance with the label directions.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate; butyl, nitrile, neoprene and natural rubbers  $\geq 14$  mils; polyethylene; polyvinyl chloride; and viton  $\geq 14$  mils. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Applicators, mixers and other handlers must wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and protective eyewear. When applying Bora-Care solutions in confined spaces, provide ventilation or an exhaust system or use of a NIOSH-approved dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G) or a NIOSH-approved respirator with any N, R, P or HE prefilter is recommended.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet;
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing;
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### I. Mixing Instructions

Bora-Care is a concentrate that must be diluted with clean water before use. The use of warm or hot water is not required, but, if available, can aid the dilution process. An impeller-type mixer can be used with an electric drill to shorten mixing time.

**A. Hand Sprayers:** Mix in a clean container and stir the solution until completely uniform. Always mix in a separate container then add the solution to a spray tank. Mixing Bora-Care concentrate directly in a spray tank can block hoses and nozzles.

**B. Hand Volume Pumping Systems:** Add all of the dilution water to tank, start recirculator and slowly add Bora-Care concentrate. Mix until uniform.

Use 1:1, 2:1 and 3:1 Bora-Care solutions within 24 hours after mixing; 5:1 solutions will remain stable for up to 30 days. Do not leave unused solution under pressure or in tank overnight. Clean and/or flush equipment and lines with water after use.

For tracking purposes (to make it easier to see where Bora-Care solutions have been applied) an appropriate marker dye or pigment may be added as part of the diluent to the Bora-Care solution. Refer to the dye or pigment product label for the recommended amount to add to the Bora-Care solution. Bora-Care concentrate may also be diluted with approved water-based water repellants or coatings at dilutions listed on the repellant/coating label provided the ratios are greater than 1 part water to 1 part Bora-Care.

Use soap and water to clean up tools.

## II. Dilution Ratios by Volume

**Table A**

| Target Pests                                            | Mixing Ratios<br>Water plus<br>Bora-Care | Application Notes                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subterranean and Formosan Termites                      | 1:1 or 2:1                               | For remedial and preventative treatments apply a 1:1 dilution for all treatments by spray, injection, brush or roller. The 2:1 dilution may be used for foaming or, for application into inaccessible wall voids, may be used in a misting machine.                                                                                 |
| Drywood Termites                                        | 1:1, 2:1 or 5:1                          | For remedial treatment apply the 1:1 or 2:1 dilution by foam or by misting using a misting machine. Use the 5:1 dilution for prevention.                                                                                                                                                                                            |
| Anobiid and Lyctid Powderpost Beetles                   | 1:1, 2:1 or 5:1                          | For all remedial treatments use a 1:1 dilution. Logs > 4" require a 1:1 dilution ratio for prevention. Use a 2:1 dilution ratio for treating hardwood floors. Use the 5:1 dilution for prevention.                                                                                                                                  |
| Old House Borers, Longhorn Beetles and Ambrosia Beetles | 1:1 or 5:1                               | Use the 1:1 dilution for remedial and preventative treatment in wood > 4" thick. Use the 5:1 dilution for prevention in wood less than 4" thick.                                                                                                                                                                                    |
| Carpenter Ants                                          | 1:1, 2:1 or 5:1                          | Use the 1:1 dilution for all remedial treatments. Use the 2:1 dilution for remedial treatments applied by foam or with a misting machine (or applicator). Use the 5:1 dilution for prevention.                                                                                                                                      |
| Fungi (Rot) and Algae                                   | 1:1, 3:1 or 5:1                          | For remedial control use a 1:1 dilution on wood members 4" thick or greater. Use a 3:1 dilution for wood less than 4" thick or for active remedial treatment of dry rot. For prevention use a 5:1 dilution. May be used at a 5:1 dilution to control and prevent fungi on wood less than 4" thick when mixed with other fungicides. |

**Table B**

| Materials to Be Treated                               | Mixing Ratios<br>Water plus Bora-Care | Application Notes                                                                                     |
|-------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Logs, Large Beams, Timber and Dimensional Lumber > 4" | 1:1, 3:1 or 5:1                       | See target pests in Table A. All spray applications for insects and fungi (rot).                      |
| Decking, Fences and Plywood                           |                                       | See target pests in Table A. Use on wood members 2" thick or less.                                    |
| Logs, Large Beams and Dimensional Lumber              |                                       | See target pests in Table A. Use the 5:1 dilution ratio only for dip treatment for insect prevention. |
| Cellulosic Drywall and Insulation                     |                                       | See target pests in Table A.                                                                          |

**Table C**

| Parts Water | Part<br>Bora-Care | % Disodium Octaborate Tetrahydrate |
|-------------|-------------------|------------------------------------|
| 1           | to 1              | 23%                                |
| 2           | to 1              | 16%                                |
| 3           | to 1              | 13%                                |
| 5           | to 1              | 9%                                 |

## III. General Information

Bora-Care is not intended for application to soil; it is not a soil termiticide. **Do not use to directly treat soil. When active infestations exist, get a professional inspection. Prior to using this product, consult with your state regulatory agency to see if additional qualifications are required to apply this product.**

Bora-Care contains an inorganic borate salt, soluble in water, with insecticidal and fungicidal properties effective against wood destroying organisms, including the target pests listed below. This product may be used as a remedial treatment of infested wood and as a long-term protective or preventive treatment (before signs of infestations are observed) of wood in existing or new construction. Bora-Care solution is recommended for protection of all interior

and exterior wood (including wood-foam composite structural components). Treatment is long lasting provided the treated material is not exposed to rain, continuous water or in direct contact with the ground. The active ingredient in Bora-Care is an inorganic salt and once in place will not decompose or volatilize out of the wood.

Subterranean Termites: *Reticulitermes*, *Heterotermes*

Formosan Termites: *Coptotermes*

Drywood Termites: *Kaloterms*, *Incisitermes*

Dampwood Termites: *Zootermopsis*, *Neotermes*

Powderpost Beetles: *Lyctidae*, *Bostrichidae*

Anobiid Beetles: *Anobiidae*

Old House Borers, Longhorn Beetles: *Cerambycidae*,  
*Hylotrupes*

Ambrosia Beetles: *Platypodidae*, *Scolytidae*

Carpenter Ants: *Camponotus*

Brown Rot (including dry rot), White Rot, Wood Decay

Bora-Care solutions may be used on all non-food contact surface cellulosic materials including wood, plywood, particleboard, paper, oriented strand board (OSB), cardboard (non-food packaging material), wood composite structural components, concrete, block, brick, metals, PVC plumbing pipes and other non-cellulosic materials found in structures. Apply Bora-Care solutions only to bare wood, plywood, particleboard and other cellulosic materials where an intact water-repellent barrier, such as paint, stain or sealer, is not present.

When spraying overhead interior areas of homes, apartment buildings, etc., cover or protect all surfaces below the areas being sprayed with plastic sheeting or other material and dispose if contamination from dripping occurs. Do not apply in food serving areas while food is exposed. Cover all food contact and preparation surfaces prior to treatment. After treatment, thoroughly clean all food contact surfaces with a water/detergent solution followed with a potable water rinse. Remove all pets; turn off fish aquarium pumps and cover.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the "dried-in" stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

#### **IV. Remedial Wooden Structure Treatment for the Control of Subterranean, Formosan, Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and Listed Wood Boring Beetles and Fungi (Rot)**

**A. Infested wood:** Spray and/or inject Bora-Care solution into beetle holes, termite and carpenter ant galleries and decay pockets. Apply 1 coat of Bora-Care solution to the point of surface saturation to all infested and -susceptible wood, paying particular attention to infested areas. Apply 2 coats of Bora-Care solution to those wood members with only 1 or 2 exposed sides. For quicker control, apply an additional coat to heavily infested areas. Allow first application to dry by waiting at least 20 minutes between

applications. For specific pests to be controlled refer to **Table A** for applicable mixing instructions.

In cases where the infestation is not accessible from the surface, drill small holes into the wood to gain access to the infested area. Inject enough solution to completely flood galleries or voids. Adjacent intact wood may be treated by pressure injecting Bora-Care solution into holes drilled into the wood at 8- to 10-inch intervals. Inject at 40 psi for 4 to 6 seconds per hole.

For treating infested wall voids, refer to Section IV, E and F.

**B. Basements and crawl spaces:** Apply 1 coat of diluted Bora-Care solution to the point of surface saturation to all accessible surfaces including concrete walls, sill plates, piers, girders, subfloors, floor joists and any wood exposed to vertical access above ground. On wood where access is limited to 1 or 2 sides of wood members, such as sills and plates on foundation walls, apply 2 coats of Bora-Care solution. Allow first application to dry by waiting at least 20 minutes between applications. One gallon of solution will treat 200 square feet of floor area (subfloor, floor joists, header and sill plates) or 50 linear feet of 8-foot high walls.

**C. Buildings on concrete slabs:** Apply Bora-Care solution into wall voids by foaming (See Section IV.F.) or misting. Locate each stud and drill a small hole through the wall covering to gain access to the infested area. Drill holes every 18-24 inches adjacent to the side of each stud and inject at least 1/3 fluid ounce of Bora-Care solution per hole. Drill at least one hole per stud bay near the floor to treat the base plate in each void. Treat entire wall area as opposed to single stud bays to completely include the infested area within the treatment zone. Cover at least 6 inches of concrete slab surface area out from the penetration site, if accessible.

**D. Wood flooring:** Treat by spray, brush or roller application. Prior to application, remove any existing finish by coarse sanding or stripping. Apply a 2:1 Bora-Care solution at a rate of approximately 1 gallon of solution per 500 square feet of floor surface. For treating infestations of subterranean or Formosan termites, 2 coats may be required, waiting at least 1 hour between applications. Allow floor to completely dry (typically 48 to 72 hours). Moisture content must be 16% or less before applying final finish. Bora-Care solution applications may raise the grain of the wood and an additional **light** sanding may be necessary before applying a new finish. The Bora-Care solution is compatible with most floor coatings; always test a small section of treated floor with the new finish and check for appropriate adhesion prior to coating the entire floor.

**Note:** If surface is tacky or residue is evident after 72 hours of drying time, wash affected area with clean water and a mop, cloth or sponge, rinsing frequently. Allow surface to dry prior to final **light** sanding and application of finish coat.

**E. Inaccessible wall voids, wall studs and wood members:** Apply by foaming (See Section IV.F.) or misting into voids and channels of damaged or suspected infested wood and/or through small holes drilled into walls and baseboard areas. Space holes no more than 24" apart along each member to be treated and at least 1 hole must

be drilled between each wall stud when treating base plates. Use sufficient amount of solution to cover all areas to the point of surface saturation.

**Note:** Existing insulation may interfere with distribution of the Bora-Care solution. If necessary, move or displace insulation during or prior to treatment.

**F. Foam application:** Apply Bora-Care solution to bare wood surfaces and void areas as a foam by mixing 2 parts water with 1 part Bora-Care (2:1) and adding 3 to 8 ounces of foaming agent per gallon of mixed solution. Foam will take approximately 1 hour to return to liquid state and soak into bare wood. Apply foamed Bora-Care solution to void spaces at a 1:20 to 1:30 foam ratio (1 gallon of mixed solution expanded with foaming agent to produce 20 to 30 gallons of foam). Apply enough foam to fill void and contact all wood surfaces in the void space.

**G. Foam insulation:** Apply by injecting a 1:1 Bora-Care solution into the infested area and/or by low pressure surface spraying at a rate of 1 gallon per 300 to 400 square feet. Bora-Care solution may also be mixed with approved topically-applied insulation products. To protect insulation from infestation, pre-mix the appropriate amount of Bora-Care solution with foaming materials during or prior to installation that will achieve a 0.5-1.5% by weight retention.

**Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation.

**H. For remedial treatments:** Apply a supplemental treatment of Bora-Care solution to concrete, block or brick on the interior of crawl space and basement foundations to prevent shelter tubing by subterranean termites. Apply a 1:1 Bora-Care solution at the rate of 1 gallon to 400 square feet of surface area. In crawl spaces, apply solution 2 feet (24 inches) up from the ground on interior wall surfaces. In unfinished basements with bare concrete slabs, apply the 1:1 Bora-Care solution 2 feet up from the concrete slab on interior foundation walls. In addition to the wall treatment, extend application up to 6 inches away from foundation walls onto the horizontal surface of the bare concrete slab. Treat bath trap areas in concrete slab construction, after obtaining access to the area, by evenly applying 8 ounces of the 1:1 Bora-Care solution into the traps out at least 1 foot (12 inches) in all directions from the edge of the trap area. Treat other termite access areas (such as plumbing penetrations, expansion joints and abutting slabs) by applying the 1:1 Bora-Care solution into the penetration, out at least 1 foot in all directions from the edge of the penetration area. Also treat protruding utilities and adjacent wood to a height of 2 feet.

## **V. Preventative Treatment of Wooden Structures for Formosan, Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and other Wood Boring Beetles, and Fungi (Rot)**

**Note:** Bora-Care is not intended for application to soil.

For treatment of new log structures see Section IX.

Apply when access to wooden structural components is optimized such as at the “dried-in” stage when sheathing and roofing are in place, yet before installation of insulation, wiring, plumbing and other mechanical components.

For framed wood surfaces above ground, apply to the point of surface saturation 1 coat of a 1:1 Bora-Care solution for subterranean termites and Formosan termites as described in Section VI. Treat remainder of structural wood with a 5:1 Bora-Care solution. Concentrate application in areas susceptible to attack, to include all sills, plates, floor joists, piers, girders and subfloors. Treat structural wood in all plumbing, electrical and ductwork areas where they penetrate walls and/or floors. Treat all structural wood base plates and studs on interior and exterior walls, especially those surrounding any high moisture areas such as bathrooms, kitchens and laundry rooms. For buildings built on concrete slabs, treat all structural wood in contact with the concrete slab, all interior and exterior wall studs and wall sheathing material. In attics, treat all structural wood including ceiling joists, trusses, top plates, rafters and roof decking. Treat all structural wood sill plates and structural wood contacting garages and porches.

In areas where access is limited to 1 or 2 sides of a wood member, including exterior wall base plates and any married studs, apply 2 coats of Bora-Care solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

## **VI. Preventative Treatments and Pretreatments for Subterranean Termites (Crawl Space, Basement and Slab)**

**Note:** This treatment serves as a primary treatment for the control of subterranean termites and must be applied with a 1:1 Bora-Care solution.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the “dried-in” stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

Apply when access to wooden structural components is optimized and when no further framing modifications will be made, such as after final framing inspection. If treatment is carried out prior to framing inspection, a second visit is required to ensure full treatment is still intact.

In areas where access is limited to 1 or 2 sides of a wood member, including exterior wall base plates and any married studs, apply 2 coats of Bora-Care solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

**A. Crawl Spaces and/or Basements:** Apply 1 coat of a 1:1 Bora-Care solution in a 2-foot wide uninterrupted band to the point of surface saturation to all structural surfaces in crawl spaces and basements, to include all sills, plates, floor joists, piers, girders and subfloors as well as structural wood exposed to direct vertical access from the soil. To prevent

termite shelter tubes on crawl space walls, apply a 1:1 Bora-Care solution to crawl space concrete or block walls in a 2-foot band up from the ground on interior wall surfaces. Apply at the rate of 1 gallon to 400 square feet of surface area. Treat a 2-foot band around construction materials and structural wood adjacent to plumbing, electrical conduit and ducts where they penetrate subfloors, if they provide a direct vertical access from the soil. Treat all structural wood, including wall studs and sills, in finished-out basements where structural wood framing is immediately adjacent to the exterior foundation walls. Spray the concrete slab surface a minimum of 2 up to a maximum of 8 inches. To prevent termite shelter tubes on basement walls, spray all interior concrete or block foundation walls with a 2-foot band up from the concrete slab area. Apply the 1:1 Bora-Care solution at the rate of 1 gallon per 400 square feet of concrete foundation wall area.

**On structural wood where access is limited to 1 or 2 sides of wood members such as sill plates and headers on foundation walls, married studs or wrapped sheathing, apply 2 coats of Bora-Care solution.** Allow first application to dry by waiting at least 20 minutes between applications. If accessible, treat the exterior of structural wood sill areas around the entire perimeter of the structure with a 2-foot wide band of a 1:1 Bora-Care solution beginning with the sill area and extending upwards onto the sheathing material. On multiple story structures, treat only the first story above the masonry foundation level. Coated or painted structural wood may be treated by pressure injecting Bora-Care solution into holes drilled into the wood at 8- to 10-inch intervals. Inject at 40 psi for 4 to 6 seconds per hole.

**B. Buildings on concrete slabs:** Apply 1 coat of a 1:1 Bora-Care solution to all wood, metal and/or non-cellulosic base plates and the bottom 2 feet of all wood, metal and/or non-cellulosic studs on all exterior and interior walls in contact with the concrete slab. Treat at the rate of 1 gallon of solution to 200 linear feet of stud walls. Treat all wood in plumbing walls, bath traps and any wood adjacent to plumbing, electrical conduit and duct penetrations to provide a minimum 2-foot wide barrier of treatment between the bottom of the penetration site and the balance of the structure. **In areas where access is limited to 1 or 2 sides of a structural wood member, such as sills and plates on foundation walls, married studs or wrapped sheathing, apply 2 coats of Bora-Care solution to the exposed surfaces.** Allow first application to dry by waiting at least 20 minutes between applications. When spraying base plates, also treat the concrete slab a minimum of 2 inches to a maximum of 8 inches out from plates. Treat the concrete slab where any visible cracks may be occurring, extending treatment 8 to 12 inches out on each side of the concrete slab crack.

Treat all penetrations (such as plumbing, expansion joints and abutting concrete slabs) by spraying the 1:1 Bora-Care solution 2 feet high and extending application to cover at least 6 inches of concrete slab out from penetration site.

Evenly treat bath traps with a minimum of 8 ounces of the 1:1 Bora-Care solution to a maximum of 16 ounces per

square foot of trap. Treat all concrete slabs at least 1 foot out from all bath trap penetrations.

Concrete, cinder block or non-cellulosic exterior walls must be treated with a 1:1 Bora-Care solution 2 feet on the interior side of wall surface up from the concrete slab. This treatment must be applied as a continuous 2-foot barrier to all interior surfaces of all exterior walls. Treat at the rate of 1 gallon of a 1:1 Bora-Care solution to 400 square feet of surface area.

Do not use for new construction treatments if the total linear footage of the cellulosic base plates is less than 60% of the total linear footage of all base plates in the structure to include exterior and interior walls. In new construction with 60% or more lineal footage of base plates, but without continuous wood on every exterior wall, the Bora-Care treatment must be installed to all other exterior structural construction materials, including brick or block, to a height of 2 feet and extended out onto the slab a minimum of 2 to a maximum of 8 inches.

**C. Foam insulation:** Treat with low-pressure surface spraying or injecting a 1:1 Bora-Care solution to the infested area at the rate of one 1 gallon per 300 to 400 square feet.

**Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation.

## **VII. Preventative Treatment for Drywood Termites and Powderpost Beetles**

Apply 1 coat of a 5:1 Bora-Care solution to the point of surface saturation to all structural wood surfaces using a brush, spray or mist. Apply 2 coats of Bora-Care solution to those surfaces where access is limited to 1 or 2 sides of structural wood members. Allow first application to dry by waiting at least 20 minutes between applications.

## **VIII. Treatment of Exterior Wood Surfaces Less Than Two Inches Thick such as Decks, Sheds and Fences**

Apply only to bare wood or to wood surfaces where an intact water repellent or finish is not present. Remove paint or finish prior to application. Apply 1 coat of Bora-Care solution to the point of surface saturation to all wood surfaces. Apply 2 coats of Bora-Care solution to heavily infested areas and to those surfaces where access is limited to 1 or 2 sides of wood members. Allow first application to dry by waiting at least 20 minutes between applications. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

For wood in contact with the ground or soil, see Section XI.

**A. Finishing and Maintaining Treated Surfaces:** For longer performance, exterior wood surfaces that have been treated with Bora-Care solution will require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within 6 weeks of treatment. It is important to allow Bora-Care-treated wood to completely



dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

## **IX. Treatment of Log Structures, Timbers, Beams, Pilings and Exterior Wood Members Two or More Inches Thick**

Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. Remove paint or finish prior to application. Prior to treatment, clean interior, unfinished surfaces that have accumulated dirt or cooking oils with a strong detergent. Apply a 1:1 Bora-Care solution to the point of surface saturation to all interior and exterior wood surfaces. Apply 2 coats of Bora-Care solution to log ends, notches, corners and sill logs. Wait at least 1 hour before re-application.

Actual number of coats necessary to meet minimum requirements will depend upon wood size, surface porosity and number of sides accessible for treatment. Refer to application chart for the minimum amount of Bora-Care solution needed to treat various sized logs or beams. Typically, 2 coats of solution are required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least 1 hour before re-application. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

**A. Finishing and Maintaining Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with Bora-Care solution will require a topcoating with a water-resistant finish, paint or exterior stain. Apply the finish or topcoat within 6 weeks of treatment. It is important to allow Bora-Care-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

## **X. Dip Treating Logs and Lumber**

Prepare a 5:1 Bora-Care dip treating solution. This will result in a stable solution containing 9% active ingredient. Sticker bundled wood to ensure the solution covers all wood surfaces. Submerge logs and/or lumber in the solution for at least 1 minute or until all entrapped air has escaped. Protect treated wood from rain or snow for at least 24 hours after treatment.

## **XI. Treatment of Wood In Contact With the Ground**

A Bora-Care solution treatment to wood in contact with the ground or soil has a limited lifespan and will require periodic reapplication. Protection may be extended with the use of a 40% disodium octaborate tetrahydrate (or borate) gel product.

## **XII. Prevention and Remedial Control of Algae for Cellulosic Building Components**

**A. On Cellulosic Building Components:** Apply Bora-Care solution for the prevention and remedial control of algae to cellulosic building components (drywall, insulation) in new

construction and existing structures and where an intact water repellent barrier such as paint, stain or sealer is not present. Apply Bora-Care solution at the rate of 1 gallon of solution per 400 square feet of surface area. Apply only to the back paper side of drywall and to cellulose insulation. In areas where drywall has been installed and insulation is enclosed, apply the Bora-Care solution using a misting machine (or applicator) applying sufficient solution to cover surfaces at the rate of 1 gallon per 400 square feet. Refer to Tables **A** and **B** for mixing ratios for preventative and remedial algae treatments.

**B. On Exterior Stone Concrete Walkways and Concrete Walls:** Apply Bora-Care solution to exterior stone and concrete walkways and walls for the prevention and control of algal growth. Apply a 5:1 Bora-Care solution at the rate of 1 gallon of solution per 400 square feet of walkway or wall surface area. Do not spray abutting grass or plantings.

## **XIII. General Pest Control Applications**

The application of Bora-Care solution to the surface of wood in new construction or to wood surfaces inside wall void areas in existing structures helps to prevent the establishment of cockroach, ant (except fire, harvester and pharaoh ants), silverfish, earwig, boxelder bug, millipede and cricket infestations that come in direct contact with these treated areas. Apply 1 gallon of Bora-Care solution per 400 square feet of surface area or refer to Tables **D** and **E** when applying as a surface application.

## **XIV. Application Rates**

### **Retention Rates**

One gallon of Bora-Care concentrate (2 gallons of Bora-Care solution as applied) will treat 800 board feet of wood to a minimum retention level of 0.084 pounds per cubic foot boric acid equivalent (BAE). Since the active ingredient penetrates throughout the wood being treated, calculate the amount of Bora-Care solution needed on the volume of wood being treated, not just the surface area. Use the following formulas to calculate the required amount of Bora-Care solution:

### **For Dimensional Lumber (2 x 4, 2 x 6, 2 x 12, etc.)**

Material thickness (inches) x material width (inches)  
x material length (feet) divided by 12 = Board Feet

### **For Log Homes**

Log height (inches) x log thickness (inches)  
x perimeter (feet)  
x number of courses divided by 12 = Board Feet  
(For round logs use the average diameter for both height and thickness measurements)

### **For Siding and Paneling**

One gallon of Bora-Care concentrate (2 gallons of solution) will treat 800 sq. ft. of 1" thick wood by spraying only one side. If siding or paneling is 1/2" thick, 1 gallon of Bora-Care concentrate (2 gallons solution) treats 1,600 sq. ft.

**Table D – Dimensional Lumber**

| Lumber Size (Inches) | 1 Gallon of Diluted Bora-Care Will Treat Up To | Minimum Amount of Diluted Bora-Care To Treat 1000 Lineal Feet |
|----------------------|------------------------------------------------|---------------------------------------------------------------|
| 1 x 4                | 1,200 Lineal Feet                              | 0.8 Gal.                                                      |
| 1 x 12               | 400                                            | 2.6                                                           |
| 2 x 4                | 600                                            | 1.6                                                           |
| 2 x 6                | 400                                            | 2.6                                                           |
| 2 x 8                | 308                                            | 3.2                                                           |
| 2 x 10               | 240                                            | 4.2                                                           |
| 2 x 12               | 200                                            | 5.0                                                           |
| 4 x 4                | 300                                            | 3.4                                                           |
| 4 x 6                | 200                                            | 5.0                                                           |
| 4 x 8                | 150                                            | 6.8                                                           |
| 4 x 12               | 100                                            | 10.0                                                          |
| 6 x 6                | 133                                            | 7.6                                                           |
| 6 x 8                | 100                                            | 10.0                                                          |
| 6 x 10               | 80                                             | 12.6                                                          |
| 6 x 12               | 68                                             | 15.0                                                          |

**Table E – Panels, Siding and Plywood**

(1:1 or 2:1 mixing ratio)

| Thickness (Inches) | 1 Gallon of Diluted Bora-Care Will Treat Up To | Minimum Amount of Diluted Bora-Care To Treat 1000 Square Feet |
|--------------------|------------------------------------------------|---------------------------------------------------------------|
| 1/4                | 1,600 sq. ft.                                  | 0.6 Gal.                                                      |
| 3/8                | 1,067                                          | 1.0                                                           |
| 1/2                | 800                                            | 1.2                                                           |
| 3/4                | 533                                            | 1.8                                                           |
| 1                  | 400                                            | 2.6                                                           |

**Table F – Round Logs**

(only the 1:1 mixing ratio)

| Diameter (Inches) | 1 Gallon of Diluted Bora-Care Will Treat Up To | Minimum Amount of Diluted Bora-Care To Treat 1000 Lineal Feet |
|-------------------|------------------------------------------------|---------------------------------------------------------------|
| 6                 | 167 Lineal Feet                                | 6.0 Gal.                                                      |
| 8                 | 96                                             | 10.4                                                          |
| 10                | 61                                             | 16.4                                                          |
| 12                | 43                                             | 23.4                                                          |

**Note:** The numbers listed above are based on an application rate of one gallon of Bora-Care solution to 400 board feet of wood.

## XV. Bora-Care Solution to Control Annosus Root Disease (*Heterobasidion annosum* (Fr.) Bref.) to Treat the Top of Freshly Cut Stumps

Dilute Bora-Care to a 5% solution by thoroughly mixing 1 gallon of Bora-Care with 9 gallons of water. Using a mechanical harvester, backpack sprayer or hand-held sprayer, apply solution to the point of wetness to the surfaces of freshly cut stumps immediately after or within 3 days of felling. One gallon of solution will treat 200 square feet of stump surface area (approximately 200 to 1,000 stumps, depending on stump size). Marker dye may be added to the solution as a visual aid.

### Storage and Disposal

*(For product packaged in rigid, nonrefillable containers less than or equal to 5 gallons)*

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container in a preferably locked storage area inaccessible to children and pets. Do not freeze. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Management:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times, then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

### Storage and Disposal

*(For product packaged in rigid, nonrefillable containers greater than 5 gallons)*

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Management:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times, then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

### Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of use/application, all of which are beyond the control of the Manufacturer. The buyer/user assumes all such risks.

### Limitation of Remedies

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.

### XVI. Warranty Disclaimer

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**



**NISUS**<sup>®</sup>  
CORPORATION

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Made in the U.S.A.

## SAFETY DATA SHEET

# BORA-CARE®

TERMITICIDE, INSECTICIDE AND FUNGICIDE

Health Emergencies: INFOTRAC® (800) 535-5053

### 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** Bora-Care®

**Recommended use of the chemical and restrictions on use:** Termiticide, Insecticide, and Fungicide Concentrate. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 08/05/16

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

| Physical      | Health                                                                                                                            | Environment                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Not Hazardous | Acute Toxicity Oral Category 4<br>Specific Target Organ Toxicity – Repeat Exposure Category 2<br>Reproductive Toxicity Category 2 | Aquatic Acute Toxicity Category 3 |

**GHS Label Elements:**



**Statements of Hazard**

H302 Harmful if swallowed.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to kidneys by prolonged or repeated exposure by ingestion.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P260 Do not breathe mist or vapors.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P273 Avoid release to the environment.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P330 Rinse mouth.  
P501 Dispose of contents and container in accordance with local and national regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                        | CAS No.     | Amount |
|----------------------------------|-------------|--------|
| Ethylene Glycol                  | 107-21-1    | 40-60% |
| Disodium Octaborate Tetrahydrate | 12280-03-4  | 40%    |
| Non-Hazardous Ingredient         | Proprietary | 0-20%  |

The exact formulation is being withheld as a trade secret.

### 4. FIRST AID MEASURES

**Eye:** Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.

**Ingestion:** Do not induce vomiting unless directed to do so by a medical professional. Get immediate medical attention for large ingestions or if symptoms develop or if you feel unwell.

**Inhalation:** Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

**Most important Symptoms:** May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is required for large ingestions.

### 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

**Specific hazards arising from the chemical:** A solid stream of water or foam directed into hot, burning liquids can cause frothing. Burning may product carbon monoxide, carbon dioxide, and ethylene oxide.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain all runoff.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. Avoid releases to the environment.

**Methods and Materials for Containment and Cleaning Up:** Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling. Wash thoroughly after using and change into clean clothing. Keep containers closed when not in use.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry, well-ventilated area away from incompatible materials. Keep out of reach of children. Do not freeze. Protect from physical damage.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

|                                  |                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------|
| Ethylene Glycol                  | 100 mg/m <sup>3</sup> Ceiling ACGIH TLV                                                         |
| Disodium Octaborate Tetrahydrate | 2 mg/m <sup>3</sup> TWA ACGIH TLV (Inhalable)<br>6 mg/m <sup>3</sup> STEL ACGIH TLV (Inhalable) |

**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges with approved pesticide prefilter or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

**Skin Protection:** Wear impervious gloves such as butyl rubber, nitrile, neoprene, polyethylene, polyvinyl chloride, or Viton. Follow instructions for Category C on an EPA resistance category selection chart for more options.

**Eye Protection:** Wear safety goggles or glasses where splashing is possible.

**Other:** Wear long-sleeve shirts, long pants, socks and shoes when using this product. Suitable washing facilities should be available in the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Clear viscous gel with no odor.

**Physical State:** Viscous gel      **Odor Threshold:** Not established

**Vapor Density:** Not determined

**Initial Boiling Point/Range:** >212°F (>100°C)

**Solubility In Water:** Soluble      **Vapor Pressure:** Negligible

**Relative Density:** 1.38      **Evaporation Rate:** Not determined

**Melting/Freezing Point:** Not determined

**pH:** 6.9-7.1 (50% solution in water)

**Percent Volatile:** 36% by weight as water

**Octanol/Water Coefficient:** Not determined

**Solubility:** Soluble in water

**Decomposition Temperature:** Not determined

**Viscosity:** 8000-11,000 centipoise at room temperature

**Flammability (solid, gas):** N/A

**Flashpoint:** >220°F (104°C) TOC      **Autoignition Temperature:** None

**Flammable Limits:** LEL: Not determined      UEL: Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Avoid strong oxidizing agents and aluminum.

**Hazardous Decomposition Products:** When heated to decomposition emits carbon monoxide, carbon dioxide, and ethylene oxide.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** Harmful if swallowed. Repeated or high levels of ingestion may cause potentially fatal kidney damage.

**Inhalation:** Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.

**Eye:** May cause slight irritation with redness, pain and tearing. Product was not irritating in a study with rabbits.

**Skin:** May cause irritation on prolonged or repeated contact. Product was not irritating in a study with rabbits. Negative in a guinea pig sensitization study.

**Chronic:** Ethylene glycol causes kidney damage through repeated ingestion.

**Sensitization:** This material is not known to cause sensitization.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Germ Cell Mutagenicity:** No data available

**Reproductive Toxicity:** Ethylene glycol has been found to cause birth defects in laboratory animals. The significance of this finding to humans has not been determined.

### Numerical Measures of Toxicity:

#### Product Toxicity Data:

Oral rat LD<sub>50</sub>: >5000 mg/kg; Dermal rabbit LC<sub>50</sub>: >5050 mg/kg;

Inhalation rat LC<sub>50</sub>: >5.06 mg/L (no mortality was observed in any test)

#### Component Toxicity Data:

Ethylene Glycol: Oral rat LD<sub>50</sub>: 4700 mg/kg; Dermal rabbit LC<sub>50</sub>: 9530 mg/kg

Disodium Octaborate Tetrahydrate: Oral rat LD<sub>50</sub>: 3500-4100 mg/kg; Dermal rabbit LD<sub>50</sub>: >2000 mg/kg; Inhalation rat LC<sub>50</sub>: >2.0 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Ethylene Glycol: LC<sub>50</sub> Fathead Minnow: <10,000 mg/L/96 hr.; EC<sub>50</sub> *Daphnia Magna*: 100,000 mg/L/48 hr; Bacterial (*Pseudomonas putida*): 10,000 mg/l; Protozoa (*Entosiphon sulcatum* and *Uronema parduczi*; Chatton-Lwoff): >10,000 mg/l; Algae (*Microcystis aeruginosa*): 2,000 mg/l; Green Algae (*Scenedesmus quadricauda*): >10,000 mg/l  
Disodium Octaborate Tetrahydrate: EC<sub>10</sub> Green Algae: 24 mg B/L/96 hr; LC<sub>50</sub> *Daphnia Magna*: 133 mg B/L/48 hr; NOEC-LOEC *Daphnia Magna*: 6-13 mg B/L/21-day; LC<sub>50</sub> *Limanda limanda*: 74 mg B/L/96 hr; LC<sub>50</sub> Rainbow Trout: 150 mg B/L/24-day, 100 mg B/L/32-day; LC<sub>50</sub> Goldfish: 46 mg B/L/7-day, 178 mg B/L/3-day

This product is classified as harmful to the aquatic environment. Releases to the environment should be avoided.

**Persistence and Degradability:** Ethylene glycol is readily biodegradable (97-100% in 2-12 days). Boron is naturally occurring and ubiquitous in the environment. Disodium Octaborate Tetrahydrate degrades to boron.

**Bioaccumulative Potential:** Ethylene glycol: A BF of 10 reported for ethylene glycol in fish, Golden ide (*Leuciscus idus melanotus*), after 3 days of exposure suggests the potential for bio concentration in aquatic organisms is low. Disodium Octaborate Tetrahydrate: Log K<sub>ow</sub>: -0.7570 at 25°C.

**Mobility in Soil:** Disodium Octaborate Tetrahydrate is soluble in water and is leachable through normal soil.

**Other Adverse Effects:** Some plants are sensitive to boron. Avoid releases into the environment. This product is designed to be used for certain types of wood destroying insects. Use product only as directed on the label. Avoid all unintended releases and releases to ground water. Do not apply to water or to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. See product label for full instructions and restrictions on use.

## 13. DISPOSAL CONSIDERATION

Dispose in accordance with local, state and federal environmental regulations. Do not contaminate water when disposing of washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, ocean, or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state water board or regional office of the EPA.

## 14. TRANSPORTATION INFORMATION

**DOT Hazardous Materials Description:** Not Regulated (unless package contains a reportable quantity)

Note: If a shipment of a reportable quantity (10,000 lbs/870 gal) in a single package is involved, the following information applies:

Proper Shipping Name: RQ, Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

UN Number: UN3082

Hazard Class/Packing Group: 9, III

Labels Required: Class 9

**IATA:** Not Regulated

**IMDG:** Not Regulated

## 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**FIFRA Labeling:**

**Bora-Care**  
**EPA Reg. No. 64405-1**  
**Keep Out of Reach of Children**  
**CAUTION**  
**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans & Domestic Animals**

**PRECAUTIONARY STATEMENTS**

Wear long sleeved shirt & long pants, socks, shoes and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride (PVC), Viton or others listed in Category C on an EPA chemical resistance category selection chart).

**CERCLA:** This product has a reportable quantity (RQ) of 10,000 lbs based on the RQ for ethylene glycol of 5,000 lbs present at 40-50%. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol      107-21-1      40-50%

**EPA TSCA Inventory:** This product is regulated under FIFRA, thus exempt.

**16. OTHER INFORMATION****NFPA Rating:**

Health = 2      Flammability = 1      Instability = 0

**HMIS Rating:**

Health = 2      Flammability = 1      Physical Hazard = 0

**SDS Revision History:** 11/01/03: New SDS  
08/05/16: Revised

**WARRANTY DISCLAIMER**

The information, data and recommendations contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof. With respect to this publication and the product related thereto, unless otherwise expressly provided by Manufacturer in writing, **MANUFACTURER MAKES NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

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1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

Manufacturer shall not be liable for losses or damages resulting from use of this publication or handling or use of this product, **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

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# Bora-Care® Safety Data Sheet

Issue Date: 01-Nov-2003

Revision Date: 16-Nov-2022

Version 3

## 1. IDENTIFICATION

### Product identifier

**Product Name** Bora-Care

### Other means of identification

**SDS #** NIS-008

**Registration Number(s)** EPA Reg No 64405-1  
**UN/ID No** UN3082

### Recommended use of the chemical and restrictions on use

**Recommended Use** Termiticide, insecticide and fungicide concentrate.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

#### Emergency telephone number

**Company Phone Number** Phone: (800)-264-0870  
Fax: (865) 577-5825  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

**Appearance** Clear, viscous gel

**Physical state** Liquid

**Odor** Characteristic

### Classification

|                                                    |            |
|----------------------------------------------------|------------|
| Acute toxicity - Oral                              | Category 4 |
| Reproductive toxicity                              | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

### Signal Word

**Warning**

### Hazard statements

Harmful if swallowed  
May damage fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name                    | CAS No     | Weight-% |
|----------------------------------|------------|----------|
| Ethylene glycol                  | 107-21-1   | 40-60    |
| Disodium octaborate tetrahydrate | 12280-03-4 | 40       |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST AID MEASURES****Description of first aid measures**

|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b> | Immediate medical attention is required for large ingestions.                                                                                                                 |
| <b>Eye Contact</b>    | Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.                                |
| <b>Skin Contact</b>   | Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.                                            |
| <b>Inhalation</b>     | Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.                                                                          |
| <b>Ingestion</b>      | Do not induce vomiting unless directed to do so by a medical professional. Get immediate medical attention for large ingestions or if symptoms develop or if you feel unwell. |

**Most important symptoms and effects, both acute and delayed**

|                 |                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage. |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

---

**5. FIRE-FIGHTING MEASURES**

---

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material.

**Specific Hazards Arising from the Chemical**

Burning may produce carbon monoxide, carbon dioxide and ethylene oxide.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire exposed containers with water.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8.

**Environmental precautions****Environmental precautions**

Avoid release to the environment. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up**

Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling****Advice on Safe Handling**

Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep containers closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible materials. Keep out of the reach of children. Protect from physical damage.

**Packaging Materials**

Non refillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Incompatible Materials**

Avoid strong oxidizing agents and aluminum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical name                                  | ACGIH TLV                                                                                                                          | OSHA PEL                                                              | NIOSH IDLH |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------|
| Ethylene glycol<br>107-21-1                    | STEL: 50 ppm vapor fraction<br>STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only<br>TWA: 25 ppm vapor fraction | (vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 125 mg/m <sup>3</sup> | -          |
| Disodium octaborate tetrahydrate<br>12280-03-4 | STEL: 6 mg/m <sup>3</sup> inhalable particulate matter<br>TWA: 2 mg/m <sup>3</sup> inhalable particulate matter                    | -                                                                     | -          |

### Appropriate engineering controls

#### Engineering Controls

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Suitable washing facilities should be available in the work area.

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Wear safety goggles or glasses where splashing is possible.

#### Skin and Body Protection

Wear impervious gloves such as butyl rubber, nitrile, neoprene, polyethylene, polyvinyl chloride or Viton. Follow instructions for Category C on an EPA resistance category selection chart for more options. Wear long sleeve shirts, long pants, socks and shoes when using this product.

#### Respiratory Protection

In operations where exposure levels are exceeded, a NIOSH approved respirator with methylamine or organic vapor cartridges with approved pesticide prefilter or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                        |                                 |                                           |                 |
|----------------------------------------|---------------------------------|-------------------------------------------|-----------------|
| <b>Physical state</b>                  | Liquid                          | <b>Odor</b>                               | Characteristic  |
| <b>Appearance</b>                      | Clear, viscous gel              | <b>Odor Threshold</b>                     | Not established |
| <b>Color</b>                           | Clear                           |                                           |                 |
| <b>Property</b>                        | <b>Values</b>                   | <b>Remarks • Method</b>                   |                 |
| pH                                     | 6.9-7.1 (50% solution in water) |                                           |                 |
| Melting point / freezing point         | Not determined                  |                                           |                 |
| Boiling point / boiling range          | >100 °C / >212 °F               |                                           |                 |
| Flash point                            | >104 °C / >220 °F               | (Dipropylene glycol methyl ether acetate) |                 |
| Evaporation Rate                       | Not determined                  |                                           |                 |
| Flammability (Solid, Gas)              | Liquid-Not applicable           |                                           |                 |
| Flammability Limit in Air              |                                 |                                           |                 |
| Upper flammability or explosive limits | Not determined                  |                                           |                 |
| Lower flammability or explosive limits | Not determined                  |                                           |                 |
| Vapor Pressure                         | Negligible                      |                                           |                 |
| Vapor Density                          | Not determined                  |                                           |                 |
| Relative Density                       | 1.38                            |                                           |                 |
| Water Solubility                       | Soluble in water                |                                           |                 |

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Solubility in other solvents</b> | Not determined        |
| <b>Partition Coefficient</b>        | Not determined        |
| <b>Autoignition temperature</b>     | None                  |
| <b>Decomposition temperature</b>    | Not determined        |
| <b>Kinematic viscosity</b>          | 8000-11000 centipoise |
| <b>Dynamic Viscosity</b>            | Not determined        |
| <b>Explosive Properties</b>         | Not determined        |
| <b>Oxidizing Properties</b>         | Not determined        |

**Other information**

**VOC Content** 36% by weight as water

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible materials**

Avoid strong oxidizing agents and aluminum.

**Hazardous decomposition products**

When heated to decomposition, it emits carbon monoxide, carbon dioxide and ethylene oxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

**Component Information**

| Chemical name                                  | Oral LD50            | Dermal LD50           | Inhalation LC50 |
|------------------------------------------------|----------------------|-----------------------|-----------------|
| Ethylene glycol<br>107-21-1                    | = 4700 mg/kg ( Rat ) | = 10600 mg/kg ( Rat ) | -               |
| Disodium octaborate tetrahydrate<br>12280-03-4 | = 2500 mg/kg ( Rat ) | -                     | -               |
| Polyethylene glycol<br>25322-68-3              | = 22 g/kg ( Rat )    | > 20 g/kg ( Rabbit )  | -               |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Carcinogenicity</b>          | Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reproductive toxicity</b>    | Sodium Borate: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth.<br>The above mentioned animal studies were conducted under exposure conditions leading to doses many times in excess of those that could occur through product use or inhalation of dust in occupational settings. Moreover, a human study of occupational exposure to sodium borate and boric acid dusts showed no adverse effect on fertility. |
| <b>STOT - repeated exposure</b> | May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Oral LD50</b>                     | 896.60 mg/kg    |
| <b>Dermal LD50</b>                   | 19,760.70 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 3.16 mg/L       |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

| <b>Chemical name</b>        | <b>Algae/aquatic plants</b>                                        | <b>Fish</b>                                                                                                                                                                                                                                                                                                                               | <b>Crustacea</b>                       |
|-----------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Ethylene glycol<br>107-21-1 | 6500 - 13000: 96 h<br>Pseudokirchneriella subcapitata<br>mg/L EC50 | 14 - 18: 96 h Oncorhynchus mykiss<br>mg/L LC50 static<br>40000 - 60000: 96 h Pimephales<br>promelas mg/L LC50 static<br>16000: 96 h Poecilia reticulata mg/L<br>LC50 static<br>27540: 96 h Lepomis macrochirus<br>mg/L LC50 static<br>40761: 96 h Oncorhynchus mykiss<br>mg/L LC50 static<br>41000: 96 h Oncorhynchus mykiss<br>mg/L LC50 | 46300: 48 h Daphnia magna mg/L<br>EC50 |

**Persistence/Degradability**

Readily biodegradable.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| <b>Chemical name</b>        | <b>Partition coefficient</b> |
|-----------------------------|------------------------------|
| Ethylene glycol<br>107-21-1 | -1.93                        |

**Other Adverse Effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

##### Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

##### Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

#### Note

This product is NOT REGULATED for transportation unless the package contains a reportable quantity. If a shipment of a reportable quantity (10,000 lbs/ 870 gal in a single package) is involved, the following DOT information applies:

#### DOT

UN/ID No UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)  
 Hazard class 9  
 Packing Group III  
 Reportable Quantity (RQ) 10,000 lbs/ 870 gal

#### IATA

Not regulated

#### IMDG

Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

| Chemical name                    | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------------------|------|-----------------------|----------|---------------|------|-------|------|-------|------|
| Ethylene glycol                  | X    | ACTIVE                | X        | X             | X    | X     | X    | X     | X    |
| Disodium octaborate tetrahydrate | X    |                       |          |               |      | X     |      | X     |      |
| Polyethylene glycol              | X    | ACTIVE                | X        | X             | X    | X     | X    | X     | X    |

#### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

#### US Federal Regulations

#### CERCLA

| Chemical name               | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|-----------------------------|--------------------------|----------------|--------------------------------------------|
| Ethylene glycol<br>107-21-1 | 5000 lb                  |                | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**SARA 311/312 Hazard Categories**

|                                          |     |
|------------------------------------------|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

| <b>Chemical name</b>       | <b>California Proposition 65</b> |
|----------------------------|----------------------------------|
| Ethylene glycol - 107-21-1 | Developmental                    |

**U.S. State Right-to-Know Regulations**

| <b>Chemical name</b>                           | <b>New Jersey</b> | <b>Massachusetts</b> | <b>Pennsylvania</b> |
|------------------------------------------------|-------------------|----------------------|---------------------|
| Ethylene glycol<br>107-21-1                    | X                 | X                    | X                   |
| Disodium octaborate tetrahydrate<br>12280-03-4 | X                 |                      |                     |

**EPA Pesticide Registration Number** EPA Reg No 64405-1**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Please refer to EPA label for additional information

**Difference between SDS and EPA pesticide label**

Please refer to EPA label for additional information



**16. OTHER INFORMATION**

|                    |                       |                     |                         |                            |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b><u>NFPA</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|                    | 2                     | 1                   | 0                       | Not determined             |
| <b><u>HMIS</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical hazards</b> | <b>Personal Protection</b> |
|                    | 2                     | 1                   | 0                       | Not determined             |

**Issue Date:** 01-Nov-2003  
**Revision Date:** 19-Oct-2022  
**Revision Note:** Regulatory review

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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#BCMC-SDS-111622a



# Mold-Care<sup>®</sup> Safety Data Sheet

Issue Date: 03-May-2022

Revision Date: 16-Nov-2022

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Mold-Care

### Other means of identification

**SDS #** NIS-053

**Registration Number(s)** EPA Reg. No. 6836-212-64405  
**UN/ID No** UN2920

### Recommended use of the chemical and restrictions on use

**Recommended Use** Cleaning/washing agents and disinfectants.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

#### **Emergency telephone number**

**Company Phone Number** Phone: (800)-264-0870  
Fax: (865) 577-5825  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

**Appearance** Light yellow liquid

**Physical state** Liquid

**Odor** Alcohol-like

### **Classification**

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral             | Category 4                |
| Acute toxicity - Dermal           | Category 4                |
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |
| Flammable liquids                 | Category 3                |

### **Signal Word**

**Danger**

### **Hazard statements**

Harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
Flammable liquid and vapor

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Use explosion-proof equipment

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a poison center or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Call a poison center or doctor/physician if you feel unwell  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Very toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name                    | CAS No    | Weight-% |
|----------------------------------|-----------|----------|
| Didecyldimethylammonium chloride | 7173-51-5 | 80       |
| Isopropanol                      | 67-63-0   | 10-15    |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### 4. FIRST AID MEASURES

##### Description of first aid measures

|                       |                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.                                                                                                                                |
| <b>Eye Contact</b>    | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.          |
| <b>Skin Contact</b>   | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician. |
| <b>Inhalation</b>     | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.                                          |
| <b>Ingestion</b>      | Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.                                                                                   |

##### Most important symptoms and effects, both acute and delayed

|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. |
|-----------------|----------------------------------------------------------------------------------------------|

##### Indication of any immediate medical attention and special treatment needed

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Water spray (fog). Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** High volume water jet.

##### Specific Hazards Arising from the Chemical

Flammable liquid and vapor.

**Hazardous combustion products** Smoke, fumes or vapors, and oxides of carbon.

##### Explosion Data

**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating.

##### Environmental precautions

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and material for containment and cleaning up**

|                                |                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.                                                                              |
| <b>Methods for Clean-Up</b>    | Absorb with inert material and then place in suitable container for chemical waste. For waste disposal, see section 13 of the SDS. |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on Safe Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Use explosion proof equipment. |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Conditions for safe storage, including any incompatibilities**

|                               |                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b>     | Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. |
| <b>Incompatible Materials</b> | Strong acids. Strong bases. Oxidizing agents.                                             |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

| Chemical name          | ACGIH TLV                     | OSHA PEL                                                                                                                                                                          | NIOSH IDLH                                                                                                    |
|------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Isopropanol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

**Appropriate engineering controls**

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| <b>Engineering Controls</b> | Apply technical measures to comply with the occupational exposure limits. |
|-----------------------------|---------------------------------------------------------------------------|

**Individual protection measures, such as personal protective equipment**

|                                       |                                                                                                                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/Face Protection</b>            | Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations.                                                                                            |
| <b>Skin and Body Protection</b>       | Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.                                                                                               |
| <b>Respiratory Protection</b>         | In the case of vapor formation use a respirator with an approved filter. Respirator with ABEK filter. Respirator with a vapor filter (EN 141). Refer to 29 CFR 1910.134 for respiratory protection requirements. |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                           |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                     |                       |                |
|-----------------------|---------------------|-----------------------|----------------|
| <b>Physical state</b> | Liquid              | <b>Odor</b>           | Alcohol-like   |
| <b>Appearance</b>     | Light yellow liquid | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Light yellow        |                       |                |

| <u>Property</u>                               | <u>Values</u>                                   | <u>Remarks • Method</u> |
|-----------------------------------------------|-------------------------------------------------|-------------------------|
| <b>pH</b>                                     | 6.5-9 (77 °F / 25 °C) Concentration:<br>100 g/l |                         |
| <b>Melting point / freezing point</b>         | 10 °C / -12.2 °F                                |                         |
| <b>Boiling point / boiling range</b>          | Not determined                                  |                         |
| <b>Flash point</b>                            | 41 °C / 106 °F                                  |                         |
| <b>Evaporation Rate</b>                       | Not determined                                  |                         |
| <b>Flammability (Solid, Gas)</b>              | Liquid - Not Applicable                         |                         |
| <b>Flammability Limit in Air</b>              |                                                 |                         |
| <b>Upper flammability or explosive limits</b> | Not determined                                  |                         |
| <b>Lower flammability or explosive limits</b> | Not determined                                  |                         |
| <b>Vapor Pressure</b>                         | Not determined                                  |                         |
| <b>Vapor Density</b>                          | Not determined                                  |                         |
| <b>Relative Density</b>                       | 0.89 g/cm <sup>3</sup> (77 °F / 25 °C)          |                         |
| <b>Water Solubility</b>                       | Not determined                                  |                         |
| <b>Solubility in other solvents</b>           | Not determined                                  |                         |
| <b>Partition Coefficient</b>                  | Not determined                                  |                         |
| <b>Autoignition temperature</b>               | Not determined                                  |                         |
| <b>Decomposition temperature</b>              | Not determined                                  |                         |
| <b>Kinematic viscosity</b>                    | Not determined                                  |                         |
| <b>Dynamic Viscosity</b>                      | < 100 mPa.s (77 °F / 25 °C)                     |                         |
| <b>Explosive Properties</b>                   | Not determined                                  |                         |
| <b>Oxidizing Properties</b>                   | Not determined                                  |                         |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Heat, flames and sparks.

### Incompatible materials

Strong acids. Strong bases. Oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                               |
|---------------------|-------------------------------|
| <b>Eye Contact</b>  | Avoid contact with eyes.      |
| <b>Skin Contact</b> | Harmful in contact with skin. |
| <b>Inhalation</b>   | Do not inhale.                |
| <b>Ingestion</b>    | Harmful if swallowed.         |

### Component Information

| Chemical name                                  | Oral LD50            | Dermal LD50             | Inhalation LC50                       |
|------------------------------------------------|----------------------|-------------------------|---------------------------------------|
| Didecyltrimethylammonium chloride<br>7173-51-5 | = 84 mg/kg ( Rat )   | > 1000 mg/kg ( Rat )    | -                                     |
| Isopropanol<br>67-63-0                         | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit ) | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |

### Symptoms related to the physical, chemical and toxicological characteristics

|                 |                                                |
|-----------------|------------------------------------------------|
| <b>Symptoms</b> | Please see section 4 of this SDS for symptoms. |
|-----------------|------------------------------------------------|

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                          |                                                                      |
|------------------------------------------|----------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Causes severe skin burns.                                            |
| <b>Serious eye damage/eye irritation</b> | Causes severe eye damage.                                            |
| <b>Carcinogenicity</b>                   | Group 3 IARC components are "not classifiable as human carcinogens". |

| Chemical name          | ACGIH | IARC    | NTP | OSHA |
|------------------------|-------|---------|-----|------|
| Isopropanol<br>67-63-0 |       | Group 3 |     | X    |

#### Legend

IARC (International Agency for Research on Cancer)  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                |
|--------------------------------------|----------------|
| <b>Oral LD50</b>                     | 539.10 mg/kg   |
| <b>Dermal LD50</b>                   | 1,082.70 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 518.60 mg/L    |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life.

**Component Information**

| Chemical name                                 | Algae/aquatic plants                                                                               | Fish                                                                                                                                                              | Crustacea                              |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Didecyldimethylammonium chloride<br>7173-51-5 |                                                                                                    | 0.97: 96 h Danio rerio mg/L LC50<br>semi-static                                                                                                                   |                                        |
| Isopropanol<br>67-63-0                        | 1000: 72 h Desmodesmus<br>subspicatus mg/L EC50<br>1000: 96 h Desmodesmus<br>subspicatus mg/L EC50 | 11130: 96 h Pimephales promelas<br>mg/L LC50 static<br>9640: 96 h Pimephales promelas<br>mg/L LC50 flow-through<br>1400000: 96 h Lepomis macrochirus<br>µg/L LC50 | 13299: 48 h Daphnia magna mg/L<br>EC50 |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name          | Partition coefficient |
|------------------------|-----------------------|
| Isopropanol<br>67-63-0 | 0.05                  |

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

| Chemical name          | California Hazardous Waste Status |
|------------------------|-----------------------------------|
| Isopropanol<br>67-63-0 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

|                         |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
| UN/ID No                | UN2920                                                                               |
| Proper Shipping Name    | Corrosive liquids, flammable, n.o.s. (Didecyldimethylammonium chloride, Isopropanol) |
| Hazard class            | 8                                                                                    |
| Subsidiary Hazard Class | 3                                                                                    |
| Packing Group           | II                                                                                   |



**ATA**

|                                   |                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------|
| <b>UN number</b>                  | UN2920                                                                                |
| <b>Proper Shipping Name</b>       | Corrosive liquids, flammable, n.o.s. (Didecyltrimethylammonium chloride, Isopropanol) |
| <b>Transport hazard class(es)</b> | 8                                                                                     |
| <b>Subsidiary hazard class</b>    | 3                                                                                     |
| <b>Packing Group</b>              | II                                                                                    |

**IMDG**

|                                   |                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------|
| <b>UN number</b>                  | UN2920                                                                                |
| <b>Proper Shipping Name</b>       | Corrosive liquids, flammable, n.o.s. (Didecyltrimethylammonium chloride, Isopropanol) |
| <b>Transport hazard class(es)</b> | 8                                                                                     |
| <b>Subsidiary Hazard Class</b>    | 3                                                                                     |
| <b>Packing Group</b>              | II                                                                                    |
| <b>Marine Pollutant</b>           | This material may meet the definition of a marine pollutant                           |

**15. REGULATORY INFORMATION****International Inventories**

| Chemical name                     | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|-----------------------------------|------|-----------------------|----------|---------------|------|-------|------|-------|------|
| Didecyltrimethylammonium chloride | X    | ACTIVE                | X        | X             | X    | X     | X    | X     | X    |
| Isopropanol                       | X    | ACTIVE                | X        | X             | X    | X     | X    | X     | X    |

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name         | CAS No  | Weight-% | SARA 313 - Threshold Values % |
|-----------------------|---------|----------|-------------------------------|
| Isopropanol - 67-63-0 | 67-63-0 | 10-15    | 1.0                           |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name          | New Jersey | Massachusetts | Pennsylvania |
|------------------------|------------|---------------|--------------|
| Isopropanol<br>67-63-0 | X          | X             | X            |

**EPA Pesticide Registration Number** EPA Reg. No. 6836-212-64405

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Please refer to EPA label for additional information

**Difference between SDS and EPA pesticide label**

Please refer to EPA label for additional information

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

**NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:**

03-May-2022

**Revision Date:**

16-Nov-2022

**Revision Note:**

New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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**For Prevention  
and Control of:**

- Subterranean Termites which includes Formosan Termites
- Drywood Termites
- Carpenter Ants
- Listed Wood Destroying Beetles
- Fungi (Rot)
- Algae

# **BORA-CARE®**

**TERMITICIDE, INSECTICIDE, AND FUNGICIDE CONCENTRATE**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY  
STATEMENTS AND COMPLETE DIRECTIONS FOR USE.



**NISUS®**

**ACTIVE INGREDIENT:**

Disodium Octaborate Tetrahydrate (CAS No. 12280-03-4) . . . . . 40%

**OTHER INGREDIENTS** . . . . . 60%

**TOTAL** . . . . . 100%

EPA REG. NO. 64405-1 • EPA EST. 64405-TN-1

U.S. PATENT NO. 7,597,902

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MADE IN THE U.S.A.

## FIRST AID

|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If on Skin or Clothing</b>                                                                                                                                                            | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>                                                                   |
| <b>If in Eyes</b>                                                                                                                                                                        | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
| Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. |                                                                                                                                                                                                                                                                                                     |

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### Personal Protective Equipment (PPE)

Applicators, mixers and other handlers must wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves (made of barrier laminate; butyl, nitrile, neoprene and natural rubbers  $\geq 14$  mils; polyethylene; polyvinyl chloride; and viton  $\geq 14$  mils) and protective eyewear.

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Environmental Hazards

Wood treatment facilities must take steps to prevent runoff of the product into the waterway. Treated material stored outdoors within 100 feet of a pond, lake, stream or river must be covered, surrounded by a containment berm or otherwise protected to prevent surface water runoff. The containment berm must be of sufficient height to prevent runoff during heavy rainfall events.

*(For product in containers less than 5 gallons)*

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

*(For product in containers 5 gallons or greater)*

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state water board or regional office of the EPA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use of this product for the control of bed bugs is prohibited.

Applications to carpets are prohibited.

Do not exceed label dosage rates. Do not mix this product with any other product if prohibited by that label.

## Notice

Read and understand the entire label before using. Use only according to label directions.

Before using this product, read **Warranty Disclaimer** and **Limitation of Remedies** statements found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer** and **Limitation of Remedies**.

### Use Restrictions

Do not use on food contact surfaces or surfaces where food is prepared. Do not use in serving areas where food is exposed. Do not contaminate feed, water or food. Do not enter or allow others to enter or occupy treated areas until spray has been absorbed into the wood. Treated areas must not be occupied during application.

### Phytotoxicity

This product may be phytotoxic to plants. When treating around the exterior of structures, cover and protect shrubs and other plants that may be potentially exposed to this product.

## I. Mixing Instructions

Bora-Care is a concentrate that **must** be diluted with clean water or a combination of water and permitted insecticide and/or repellent/coating, and/or antimicrobial before use. The use of warm or hot water is not required, but, if available, can aid the dilution process. A power impeller-type mixer can be used with an electric drill to shorten mixing time.

**A. Manual Applications:** Mix in a clean container and stir the solution until completely uniform prior to use.

**B. Mechanical Systems:** Add all of the dilution water to tank, start recirculator and slowly add Bora-Care concentrate. Mix until uniform.

Use 1:1, 2:1 and 3:1 Bora-Care solutions within 24 hours after mixing; 5:1 solutions will remain stable for up to 30 days. Do not leave unused solution under pressure or in tank overnight. Rinse equipment and lines with water after use.

For tracking purposes (to make it easier to see where Bora-Care solutions have been applied) an appropriate marker dye or pigment may be added as part of the diluent to the Bora-Care solution. Refer to the dye or pigment product label for the recommended amount to add to the Bora-Care solution. Bora-Care concentrate may also be diluted with approved water-based water repellents or coatings at dilutions listed on the repellent/coating label provided the ratios are greater than 1 part water to 1 part Bora-Care.

Use soap and water to clean up tools.

## II. Dilution Ratios by Volume

**Table A – General Dilution Rates**

| <b>Target Pests</b>                                             | <b>Mixing Ratios<br/>Diluent PLUS<br/>Bora-Care</b> | <b>Application Notes</b>                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subterranean Termites<br>which includes<br>Formosan Termites    | 1:1 or 2:1                                          | For remedial and preventative treatments apply a 1:1 dilution for all treatments by spray, injection, brush or roller. The 2:1 dilution may be used for foaming or misting, for application into inaccessible wall voids.                                                                                                           |
| Drywood Termites                                                | 1:1, 2:1 or 5:1                                     | For remedial treatment apply the 1:1 or 2:1 dilution by foam or by misting. Use the 5:1 dilution for prevention.                                                                                                                                                                                                                    |
| Anobiid and Lyctinae<br>Powderpost Beetles                      | 1:1 or 5:1                                          | For all remedial treatments use a 1:1 dilution. Use a 5:1 dilution for treating hardwood floors. Use the 5:1 dilution for prevention.                                                                                                                                                                                               |
| Old House Borers,<br>Longhorned Beetles<br>and Ambrosia Beetles | 1:1 or 5:1                                          | Use the 1:1 dilution for remedial and preventative treatment in wood > 4" thick. Use the 5:1 dilution for prevention in wood less than 4" thick or hardwood floors.                                                                                                                                                                 |
| Carpenter Ants                                                  | 1:1, 2:1 or 5:1                                     | Use the 1:1 dilution for all remedial treatments. Use the 2:1 dilution for remedial treatments applied by foam or with a misting machine (or applicator). Use the 5:1 dilution for prevention.                                                                                                                                      |
| Fungi (Rot) and Algae                                           | 1:1, 3:1 or 5:1                                     | For remedial control use a 1:1 dilution on wood members 4" thick or greater. Use a 3:1 dilution for wood less than 4" thick or for active remedial treatment of dry rot. For prevention use a 5:1 dilution. May be used at a 5:1 dilution to control and prevent fungi on wood less than 4" thick when mixed with other fungicides. |

**Table B**

| <b>Parts Diluent to Part Bora-Care</b>                                                                                                                                                                                                                   | <b>% Disodium Octaborate Tetrahydrate</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1 to 1                                                                                                                                                                                                                                                   | 23%                                       |
| 2 to 1                                                                                                                                                                                                                                                   | 16%                                       |
| 3 to 1                                                                                                                                                                                                                                                   | 13%                                       |
| 5 to 1                                                                                                                                                                                                                                                   | 9%                                        |
| Use 1:1, 2:1 and 3:1 Bora-Care solutions within 24 hours after mixing; 5:1 solutions will remain stable for up to 30 days. Do not leave unused portion under pressure or in tank overnight. Clean and/or flush equipment and lines with water after use. |                                           |

### III. Product Information

Bora-Care is not intended for application to soil; it is not a soil termiticide. **Do not use to directly treat soil. Prior to using this product, consult with your state regulatory agency to see if there are additional requirements beyond the label.**

Bora-Care contains an inorganic borate salt, soluble in water, with insecticidal and fungicidal properties effective against wood destroying organisms, including the target pests listed below. This product may be used as a remedial treatment of infested wood and as a preventative treatment of wood in existing or new construction. Bora-Care solution is recommended for protection of all interior and exterior wood (including wood-foam composite structural components). Treatment is intact provided the treated material is not exposed to rain, continuous water or in direct contact with the ground.

*Reticulitermes, Heterotermes, Coptotermes:* Subterranean Termites

*Kaloterms, Incisitermes:* Drywood Termites

*Zootermopsis, Neotermes:* Dampwood Termites

*Lyctinae:* True Powderpost Beetles

*Bostrichidae:* False Powderpost Beetles

*Ptinidae:* Anobiid Beetles

*Cerambycidae, Hylotrupes:* Old House Borers, Longhorned Beetles

*Platypodidae, Scolytidae, Curculionidae:* Ambrosia/Bark Beetles

*Buprestidae:* Metallic Wood Boring Beetle

*Camponotus:* Carpenter Ants

Brown Rot (including dry rot), White Rot, Wood Decay and Listed Fungi



|                                   |                                 |                                   |                                |
|-----------------------------------|---------------------------------|-----------------------------------|--------------------------------|
| <i>Antrodia sinuosa</i>           | <i>Gloeophyllum abietinum</i>   | <i>Phialophora lueto-olivacea</i> | <i>Poria viallantii</i>        |
| <i>Antrodia xantha</i>            | <i>Gloeophyllum sepiarium</i>   | <i>Phoma herbarum</i>             | <i>Poria vaporaria</i>         |
| <i>Aureobasidium pullulans</i>    | <i>Gloeophyllum trabeum</i>     | <i>Phoma lanosa</i>               | <i>Poria xantha</i>            |
| <i>Basidomycete</i>               | <i>Hericium abietis</i>         | <i>Polyporus abietinus</i>        | <i>Rhinocladiella spp.</i>     |
| <i>Bisporia pusillas</i> 132      | <i>Heterobesidians annosum</i>  | <i>Polyporus rugulosus</i>        | <i>Scerophoma pityophila</i>   |
| <i>Ceratocystis pluriannulata</i> | <i>Lentinus lepideus</i>        | <i>Polyporus sulphureus</i>       | <i>Serpula lacrymans</i>       |
| <i>Ceratocystis picea</i>         | <i>Lenzites trabea</i>          | <i>Polyporus tomentosus</i>       | <i>Sistotrema brinkmarii</i>   |
| <i>Chaetomium globosum</i> keinze | <i>Merulius lacrymans</i>       | <i>Polyporus versicolor</i>       | <i>Stereum abietinum</i>       |
| <i>Coniophora cerebella</i>       | <i>Ophiostoma coeruleum</i>     | <i>Polystictus versicolor</i>     | <i>Torulla spp.</i>            |
| <i>Coniophora olivacea</i>        | <i>Paecilomyces varioti</i>     | <i>Poria carbonica</i>            | <i>Trametes lilacino-gliva</i> |
| <i>Coniophora puteana</i>         | <i>Phialophora spp.</i>         | <i>Poria incrassata</i>           | <i>Trametes serialis</i>       |
| <i>Fomes lividus</i>              | <i>Phialophora fastigiata</i>   | <i>Poria microtela</i> 698        | <i>Trichocladium asperum</i>   |
| <i>Fomes officinalis</i>          | <i>Phialophora haffmannii</i>   | <i>Poria nigrescens</i> 4856      |                                |
| <i>Fomes pini</i>                 | <i>Phialophora heteromorpha</i> | <i>Poria placenta</i>             |                                |
| <i>Fomes pinicola</i>             | <i>Phialophora lignicola</i>    | <i>Poria subacida</i>             |                                |

Bora-Care solutions may be used on all cellulose materials, concrete, block, brick, metals, PVC plumbing pipes and other non-cellulosic materials not intended for food contact. Apply Bora-Care solutions only to bare surfaces where an intact water-repellent barrier, such as paint, stain or sealer is not present.

When spraying overhead interior areas of homes, apartment buildings, etc., cover or protect all surfaces below the areas being sprayed with plastic sheeting or other material and dispose if contamination from dripping occurs. Do not apply in food serving areas while food is exposed. Cover all food contact and preparation surfaces prior to treatment. After treatment, thoroughly clean all food contact surfaces with a water/detergent solution followed with a potable water rinse. Remove all pets; turn off fish aquarium pumps and cover.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the "dried-in" stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

## IV. Remedial Infested Wooden Treatment

**A. Accessible wood:** Spray and/or inject Bora-Care solution into beetle holes, termite and carpenter ant galleries and decay pockets. Apply 1 coat of Bora-Care solution to the point of surface saturation to all infested and susceptible wood, paying particular attention to infested areas. Apply 2 coats of Bora-Care solution to those wood members with only 1 or 2 exposed sides. For quicker control, apply an additional coat to heavily infested areas. Allow first application to dry by waiting at least 20 minutes between applications. For specific pests to be controlled refer to **Table A** for applicable mixing instructions.

In cases where the infestation is not accessible from the surface, drill small holes into the wood to gain access to the infested area. Inject enough solution to completely flood galleries or voids. Adjacent intact wood may be treated by

pressure injecting Bora-Care solution into holes drilled into the wood at 8- to 10-inch intervals. For treating infested wall voids, refer to Sections IV.E. and F.

**B. Basements and crawl spaces:** Apply 1 coat of Bora-Care solution to all accessible surfaces including concrete walls, sill plates, piers, girders, subfloors, floor joists and any wood exposed to vertical access above ground. On wood where access is limited to 1 or 2 sides of wood members, such as sills and plates on foundation walls, apply 2 [two] coats of Bora-Care solution. Allow first application to dry by waiting at least 20 minutes between applications. One gallon of solution will treat up to 400 square feet of floor area (subfloor, floor joists, header and sill plates).

**C. Buildups on concrete slabs:** Apply Bora-Care solution into wall voids by foaming (See Section IV.F.) or misting. Locate each stud and drill a small hole through the wall covering to gain access to the infested area. Drill holes every 18-24 inches adjacent to the side of each stud and apply Bora-Care solution to capacity per hole. Drill at least one hole per stud bay near the floor to treat the base plate in each void. Treat entire wall area as opposed to single stud bays to completely include the infested area within the treatment zone. Treat at least 6 inches of concrete slab out from the penetration site, if accessible.

**D. Wood flooring, paneling or other visible wood:** Treat by spray, brush or roller application. Prior to application, remove any existing finish by coarse sanding or stripping. Apply a 2:1 Bora-Care solution at a rate of approximately 1 gallon of solution per 500 square feet of floor surface. Allow floor to completely dry (typically 48 to 72 hours). Moisture content must be 16% or less before applying final finish. Bora-Care solution applications may raise the grain of the wood and an additional **light** sanding may be necessary before applying a new finish. The Bora-Care solution is compatible with most floor coatings; always test a small section of treated floor with the new finish and check for appropriate adhesion prior to coating the entire floor.

**Note: Heartwood is not penetrated quickly:** If surface is tacky or residue is evident after 72 hours of drying time, wash affected area with clean water and a mop, cloth or sponge, rinsing frequently. Allow surface to dry prior to final **light** sanding and application of finish coat. Wood that is wetted can swell so an expansion gap may be needed. Wood that is thoroughly wetted and redried may warp or twist

**E. Inaccessible wall voids, wall studs and wood members:** Apply by foaming (See Section IV.F.) or misting into voids and channels of damaged or suspected infested wood and/or through small holes drilled into walls and baseboard areas. Space holes no more than 24" apart along each member to be treated and at least 1 hole must be drilled between each wall stud when treating base plates. Use sufficient amount of solution to cover all areas to the point of surface saturation.

**Note:** Existing insulation may block distribution of the Bora-Care solution. Remove insulation prior to treatment.

**F. Foam application:** Add appropriate amount of foaming agent to produce a desired foam expansion.

**G. Foam insulation:** Apply by injecting a 1:1 Bora-Care solution into the infested area and/or by low pressure surface spraying.

**Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation.

**H. Non-cellulose (or non-wood) treatments:** Apply a supplemental treatment of Bora-Care solution to concrete, block or brick on the interior of crawl space and basement foundations to prevent shelter tubing by subterranean termites.

Apply a 1:1 Bora-Care solution at the rate of 1 gallon to up to 400 square feet of surface area. In crawl space, apply solution 2 feet (24 inches) up from the ground on interior wall surfaces. In unfinished basements with bare concrete slabs, apply the 1:1 Bora-Care solution 2 feet up from the concrete slab on interior foundation walls. In addition to the wall treatment, extend application up to 6 inches away from foundation walls onto the horizontal surface of the bare concrete slab. Treat bath trap areas in concrete slab construction, after obtaining access to the area, by evenly applying 8 ounces of the 1:1 Bora-Care solution into the traps out at least 1 foot (12 inches) in all directions from the edge of the trap area. Treat other termite access areas (such as plumbing penetrations, expansion joints and abutting slabs) by applying the 1:1 Bora-Care solution into the penetration, out at least 1 foot in all directions from the edge of the penetration area. Also treat protruding utilities and adjacent wood to a height of 2 feet.

## **V. Preventative Treatment of Wooden Structures for Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and Other Wood Boring Beetles, and Fungi (Rot)**

**Note:** Bora-Care is not intended for application to soil.

Apply when access to wooden structural components is optimized such as at the “dried-in” stage.

For treatment of new log structures see Section IX. Treat all structural wood with a 5:1 Bora-Care solution. Concentrate application in areas susceptible to attack, to include all sills, plates, floor joists, piers, girders and subfloors. Treat structural wood in all plumbing, electrical and ductwork areas where they penetrate walls and/or floors. Treat all structural wood base plates and studs on interior and exterior walls, especially those surrounding any high moisture areas such as bathrooms, kitchens and laundry rooms. For buildings built on concrete slabs, treat all structural wood in contact with the concrete slab, all interior and exterior wall studs and wall sheathing material. In attics, treat all structural wood including ceiling joists, trusses, top plates, rafters and roof decking. Treat all structural wood sill plates and structural wood contacting garages and porches.

In areas where access is limited to 1 or 2 sides of a wood member, including exterior wall base plates and any married studs, apply 2 coats of Bora-Care solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

Treat all exterior wood including siding, facias, soffits, eaves, roofing, porches, decks and railings.

## **VI. Preventative Treatments and Pretreatments for Subterranean Termites including Formosan Termites (Crawl Space, Basement and Concrete Slab)**

**Note:** This treatment serves as a primary treatment for the control of subterranean termites including Formosan termites and must be applied with a 1:1 Bora-Care solution.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the “dried-in” stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

Apply when access to wooden structural components is optimized and when no further framing modifications will be

made, such as after final framing inspection. If treatment is carried out prior to framing inspection, a second visit is required to ensure full treatment is still intact.

In areas where access is limited to 1 or 2 sides of a wood member, including exterior wall base plates and any married studs, apply 2 coats of Bora-Care solution to the exposed surfaces. Allow first application to dry by waiting at least 20 minutes between applications.

**A. Crawl Spaces and/or Basements:** Apply 1 coat of a 1:1 Bora-Care solution in a 2 foot high uninterrupted band to the point of surface saturation to all structural surfaces in crawl spaces and basements, to include all sills, plates, floor joists, piers, girders and subfloors as well as structural wood exposed to direct vertical access from the soil. To prevent termite shelter tubes on crawl space or basement walls, apply a 1:1 Bora-Care solution to crawl space concrete or block walls in a 2 foot band up from the ground on interior wall surfaces. Apply at the rate of 1 gallon to up to 400 square feet of surface area. Treat a 2-foot band around construction materials and structural wood adjacent to plumbing, electrical conduit and ducts where they penetrate subfloors, if they provide a direct vertical access from the soil. Treat all structural wood, in finished basements where structural wood framing is immediately adjacent to the exterior foundation walls. Spray the concrete slab surface a minimum of 2 to a maximum of 8 inches.

**On structural wood where access is limited to 1 or 2 sides of wood members such as sill plates and headers on foundation walls, married studs or wrapped sheathing, apply 2 coats of Bora-Care solution.** Allow first application to dry by waiting at least 20 minutes between applications. If accessible, treat the exterior of structural wood sill areas around the entire perimeter of the structure with a 2-foot high band of a 1:1 Bora-Care solution beginning with the sill area and extending upwards onto the sheathing material. On multiple story structures, treat only the first story above the masonry foundation level.

**Structures on Concrete Slabs:** Apply 1 coat of a 1:1 Bora-Care solution to all wood, metal and/or non-cellulosic sill/base plates and the bottom 2 feet of all wood, metal and/or non-cellulosic studs on all exterior and interior walls in contact with the concrete slab. Treat at the rate of 1 gallon of solution to up to 400 linear feet of stud walls. Treat all wood in plumbing walls, bath traps and any wood adjacent to plumbing, electrical conduit and duct penetrations to provide a minimum 2 foot high barrier of treatment between the bottom of the penetration site and the balance of the structure. **In areas where access is limited to 1 or 2 sides of a structural wood member, such as sills and plates on foundation walls, married studs or wrapped sheathing, apply 2 coats of Bora-Care solution to the exposed surfaces.** Allow first application to dry by waiting at least 20 minutes between applications. When spraying base plates, also treat the concrete slab a minimum of 2 inches to a maximum of 8 inches out from plates. Treat the concrete slab where any visible cracks may be occurring, extending treatment 8 to 12 inches out on each side of the concrete slab crack.

Treat all penetrations (such as plumbing, expansion joints and abutting concrete slabs) by spraying the 1:1 Bora-Care solution 2 feet high and extending application to cover at least 6 inches of concrete slab out from penetration site.

Evenly treat bath traps with a minimum of 8 ounces of the 1:1 Bora-Care solution to a maximum of 16 ounces per square foot of trap. Treat all concrete slabs at least 1 foot out from all bath trap penetrations.

Concrete, cinder block or non-cellulosic exterior walls must be treated with a 1:1 Bora-Care solution 2 feet on the

interior side of wall surface up from the concrete slab. This treatment must be applied as a continuous 2 foot barrier to all interior surfaces of all exterior walls. Treat at the rate of 1 gallon of a 1:1 Bora-Care solution to 400 square feet of surface area.

- B. Foam insulation:** Treat with low-pressure surface spraying or by injecting a 1:1 Bora-Care solution to the infested area at the rate of one 1 gallon up to 400 square feet.

**Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation.

## **VII. Preventative Treatment for Drywood Termites and Powderpost Beetles**

Apply 1 coat of a 5:1 Bora-Care solution to the point of surface saturation to all structural wood surfaces using a brush, spray or mist. Apply 2 coats of Bora-Care solution to those surfaces where access is limited to 1 or 2 sides of structural wood members. Allow first application to dry by waiting at least 20 minutes between applications.

## **VIII. Treatment of Exterior Wood Surfaces Less Than Two Inches Thick such as Decks, Sheds and Fences**

Apply only to bare wood or to wood surfaces where an intact water repellent or finish is not present. Remove paint or finish prior to application. Apply 1 coat of Bora-Care solution to the point of surface saturation to all wood surfaces. Apply 2 coats of Bora-Care solution to heavily infested areas and to those surfaces where access is limited to 1 or 2 sides of wood members. Allow first application to dry by waiting at least 20 minutes between applications. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

For wood in contact with the ground or soil, see Section XI.

- A. Finishing and Maintaining Treated Surfaces:** For best results, exterior wood surfaces that have been treated with Bora-Care solution will require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within 6 weeks of treatment. It is important to allow Bora-Care -treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

## **IX. Treatment of Log Structures, Timbers, Beams, Pilings and Exterior Wood Members Two or More Inches Thick**

Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. Remove paint or finish prior to application. Prior to treatment, clean interior, unfinished surfaces that have accumulated dirt or cooking oils with a strong detergent. Apply a 1:1 Bora-Care solution to the point of surface saturation to all interior and exterior wood surfaces. Apply 2 coats of Bora-Care solution to log ends, notches, corners and sill logs. Wait at least 1 hour before re-application.

Actual number of coats necessary to meet minimum requirements will depend upon wood size, surface porosity and number of sides accessible for treatment. Refer to application chart for the minimum amount of Bora-Care solution needed to

treat various sized logs or beams. Typically, 2 coats of solution are required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least 20 minutes before re-application. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, cover exterior treated surfaces.

**A. Finishing and Maintaining Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with Bora-Care solution will require a topcoating with a water-resistant finish, paint or exterior stain. Apply the finish or topcoat within 6 weeks of treatment. It is important to allow Bora-Care-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

## **X. Dip Treating Logs and Lumber**

Prepare a 5:1 Bora-Care dip treating solution. This will result in a stable solution containing 9% active ingredient. Sticker bundled wood to ensure the solution covers all wood surfaces. Submerge logs and/or lumber in the solution for at least 1 minute or until all entrapped air has escaped. Protect treated wood from rain or snow for at least 24 hours after treatment.

## **XI. Treatment of Wood in Contact with the Ground**

A Bora-Care solution treatment to wood in contact with the ground or soil has a limited lifespan and will require periodic reapplication.

## **XII. Prevention and Remedial Control of Algae**

**On Cellulosic Building Components:** Apply Bora-Care solution for the prevention and remedial control of algae to cellulosic building components (drywall, insulation) in new construction and existing structures and where an intact water repellent barrier such as paint, stain or sealer is not present. Apply Bora-Care solution at the rate of 1 gallon of solution to up to 400 square feet of surface area. Apply only to the back paper side of drywall and to cellulose insulation. In areas where drywall has been installed and insulation is enclosed, apply the Bora-Care solution using a misting machine (or applicator) applying sufficient solution to cover surfaces at the rate of 1 gallon to up to 400 square feet. Refer to Tables A and B for mixing ratios for preventative and remedial algae treatments.

**On Exterior Stone Concrete Walkways and Concrete Walls:** Apply Bora-Care solution to exterior stone and concrete walkways and walls for the prevention and control of algal growth. Apply a 5:1 Bora-Care solution at the rate of 1 gallon of solution to up to 400 square feet of walkway or wall surface area. Do not spray abutting grass or plantings.

## **XIII. General Pest Control Applications**

The application of Bora-Care solution to the surface of wood in new construction or to wood surfaces inside wall void areas in existing structures helps to prevent the establishment of cockroach, ant (except fire, harvester and pharaoh ants), silverfish, earwig, boxelder bug, millipede and cricket infestations that come in direct contact with these treated areas. Apply 1 gallon of Bora-Care solution to up to 400 square feet of surface area or refer to Tables A and B when applying as a surface application.

## XIV. Bora-Care Total Wood Preservative for Use Prior to Installation of Lumber

Bora-Care is a wood preservative for protection and treatment of wood against brown rot, white rot, fungi (rot) and wood destroying insects including beetles, termites and carpenter ants. Treatment is permanent provided the treated material is not exposed to rain, moisture or ground contact.

**A. Surface Preparation:** Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. Remove any previous finishes or water repellents before application of the Bora-Care solution. Surfaces must be free of dirt and other contaminants. Prior to treatment, clean with a strong detergent all interior, unfinished surfaces that are to be treated and that have accumulated dirt or cooking oils. If finished appearance is a concern, prior to application of Bora-Care solution, remove any surface fungi with an appropriate wood cleaner followed by thorough surface rinsing.

**B. Application Instructions:** Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp. Apply by spray, brush, roller, or dip.

**C. Retention Rates:** One gallon of Bora-Care concentrate (2 gallons of Bora-Care solution as applied) will treat 800 board feet of wood to a minimum retention level of 0.084 pounds per cubic foot boric acid equivalent (BAE). Since the active ingredient penetrates throughout the wood being treated, calculate the amount of Bora-Care solution needed on the volume of wood being treated, not just the surface area. Use the following formulas to calculate the required amount of Bora-Care solution:

### **Lumber (2x4, 2x6, 2x12, etc.)**

Material thickness (inches) x material width (inches) x material length (feet) divided by 12 = Board Feet

### **For Log Homes**

Log height (inches) x log thickness (inches) x perimeter (feet) x number of courses divided by 12 = Board Feet  
(For round logs use the average diameter for both height and thickness measurements)

### **For Siding and Paneling**

One gallon of Bora-Care concentrate (2 gallons of solution) will treat 800 sq. ft. of 1" thick wood by spraying only one side. If siding or paneling is 1/2" thick, 1 gallon of Bora-Care concentrate (2 gallons solution) treats 1,600 sq. ft.

## **XV. Estimated Volume of Bora-Care Needed**

**Table C – Lumber**

| <b>Lumber Size<br/>(Inches)</b> | <b>1 Gallon of Diluted Bora-Care<br/>Will Treat Up To</b> |
|---------------------------------|-----------------------------------------------------------|
| 1 x 4                           | 1,200 Lineal Feet                                         |
| 1 x 12                          | 400                                                       |
| 2 x 4                           | 600                                                       |
| 2 x 6                           | 400                                                       |
| 2 x 8                           | 308                                                       |
| 2 x 10                          | 240                                                       |
| 2 x 12                          | 200                                                       |
| 4 x 4                           | 300                                                       |
| 4 x 6                           | 200                                                       |
| 4 x 8                           | 150                                                       |
| 4 x 12                          | 100                                                       |
| 6 x 6                           | 133                                                       |
| 6 x 8                           | 100                                                       |
| 6 x 10                          | 80                                                        |
| 6 x 12                          | 68                                                        |



**Table D – Panels, Siding and Plywood**

(1:1 or 2:1 mixing ratio)

| <b>Thickness<br/>(Inches)</b> | <b>1 Gallon of Diluted Bora-Care<br/>Will Treat Up To</b> |
|-------------------------------|-----------------------------------------------------------|
| 1/4                           | 1,600 sq. ft.                                             |
| 3/8                           | 1,067                                                     |
| 1/2                           | 800                                                       |
| 3/4                           | 533                                                       |
| 1                             | 400                                                       |

**Table E – Round Logs**

(only the 1:1 mixing ratio)

| <b>Diameter<br/>(Inches)</b> | <b>1 Gallon of Diluted Bora-Care<br/>Will Treat Up To</b> |
|------------------------------|-----------------------------------------------------------|
| 6                            | 167 Linear Feet                                           |
| 8                            | 96                                                        |
| 10                           | 61                                                        |
| 12                           | 43                                                        |

**Note:** The numbers listed above are based on an application rate of 1 gallon of Bora-Care solution to 400 board feet of wood.

## **XVI. Bora-Care Solution to Control Annosus Root Disease (*Heterobasidion annosum* (Fr.) Bref.) to Treat the Top of Freshly Cut Stumps**

Dilute Bora-Care to a 5% solution by thoroughly mixing 1 gallon of Bora-Care with 9 gallons of water. Using a mechanical harvester, back-pack sprayer or hand-held sprayer, apply solution to the point of wetness to the surfaces of freshly cut stumps immediately after or within 3 days of felling. One gallon of solution will treat 200 square feet of stump surface area (approximately 200 to 1,000 stumps, depending on stump size).

### **STORAGE AND DISPOSAL**

*(for product packaged in rigid, nonrefillable containers less than or equal to 5 gallons)*

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Management:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times, then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

### **STORAGE AND DISPOSAL**

*(for product packaged in rigid, nonrefillable containers greater than 5 gallons)*

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Management:** Nonrefillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times, then offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

## Warranty Disclaimer

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

### Inherent Risks of Use

The directions for use are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of application, all of which are beyond the control of the Manufacturer. To the extent not prohibited by applicable law, the buyer/user assumes all such risks.

### Limitation of Remedies

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this Warranty Disclaimer and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this Warranty Disclaimer or Limitation of Remedies in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license if necessary from the owner following investigation by the user.

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# SAFETY DATA SHEET



## DRIONE® INSECTICIDE DUST

Version 2.0 / CDN  
102000027086

1/11  
Revision Date: 12/11/2018  
Print Date: 12/13/2018

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** DRIONE® INSECTICIDE DUST

**Product code (UVP)** 80919476

**SDS Number** 102000027086

**PCP Registration No.** 15255

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Insecticide

**Restrictions on use** See product label for restrictions.

#### Information on supplier

**Supplier** Bayer CropScience Inc  
#200, 160 Quarry Park Blvd, SE  
Calgary, Alberta T2C 3G3  
Canada

**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-888-283-6847

### SECTION 2: HAZARDS IDENTIFICATION

#### Classified in accordance with Part 2 of the Hazardous Products Regulations

This material is not hazardous under the criteria of Part 2 of the Hazardous Products Regulation.

#### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name                    | CAS-No.    | Concentration % by weight |
|---------------------------------------------|------------|---------------------------|
| Pyrethrins including cinerins               | 8003-34-7  | 1.0                       |
| Piperonyl butoxide                          | 51-03-6    | 9.7                       |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 48.4                      |

# SAFETY DATA SHEET



## DRIONE® INSECTICIDE DUST

Version 2.0 / CDN  
102000027086

2/11  
Revision Date: 12/11/2018  
Print Date: 12/13/2018

### SECTION 4: FIRST AID MEASURES

#### Description of first aid measures

|                       |                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.                                                                                                                                                            |
| <b>Inhalation</b>     | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.                                                                                      |
| <b>Skin contact</b>   | Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.                                                                                                               |
| <b>Eye contact</b>    | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.                                                                       |
| <b>Ingestion</b>      | Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended. |

#### Most important symptoms and effects, both acute and delayed

|                 |                                                                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea., Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Indication of any immediate medical attention and special treatment needed

|                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Risks</b>     | Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.                                                                 |
| <b>Treatment</b> | Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote. |

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| <b>Suitable</b>   | Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Foam, Water |
| <b>Unsuitable</b> | High volume water jet                                        |

# SAFETY DATA SHEET



## DRIONE® INSECTICIDE DUST

Version 2.0 / CDN  
102000027086

3/11  
Revision Date: 12/11/2018  
Print Date: 12/13/2018

|                                                              |                                                                                                                                                                                                                                       |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special hazards arising from the substance or mixture</b> | Dangerous gases are evolved in the event of a fire.                                                                                                                                                                                   |
| <b>Advice for firefighters</b>                               |                                                                                                                                                                                                                                       |
| <b>Special protective equipment for firefighters</b>         | In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.                                                                  |
| <b>Further information</b>                                   | Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. |
| <b>Flash point</b>                                           | Not applicable                                                                                                                                                                                                                        |
| <b>Auto-ignition temperature</b>                             | No data available                                                                                                                                                                                                                     |
| <b>Lower explosion limit</b>                                 | Not applicable                                                                                                                                                                                                                        |
| <b>Upper explosion limit</b>                                 | Not applicable                                                                                                                                                                                                                        |
| <b>Explosivity</b>                                           | No data available                                                                                                                                                                                                                     |

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions</b> | Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

### Methods and materials for containment and cleaning up

|                                    |                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b>     | Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. |
| <b>Additional advice</b>           | Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.                                                      |
| <b>Reference to other sections</b> | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13.         |

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## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

|                                |                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. |
| <b>Advice on protection</b>    | Take measures to prevent the build up of electrostatic charge.                                                                |

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### against fire and explosion

#### Hygiene measures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

#### Conditions for safe storage, including any incompatibilities

#### Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Components                                                 | CAS-No.    | Control parameters       | Update  | Basis         |
|------------------------------------------------------------|------------|--------------------------|---------|---------------|
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(TWA)         | 07 2009 | CAD AB<br>OEL |
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(TWA)         | 09 2011 | CAD BC<br>OEL |
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(TWA)         | 03 2011 | CAD MB<br>OEL |
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(TWA)         | 11 2010 | CAD ON<br>OEL |
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(8 HR ACL)    | 05 2009 | CAD SK<br>OEL |
| Pyrethrins including cinerins                              | 8003-34-7  | 10 mg/m3<br>(15 MIN ACL) | 05 2009 | CAD SK<br>OEL |
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(TWA)         | 11 2011 | OEL (QUE)     |
| Pyrethrins including cinerins                              | 8003-34-7  | 5 mg/m3<br>(TWA)         |         | OES BCS*      |
| Piperonyl butoxide                                         | 51-03-6    | 50 ppm<br>(TWA)          |         | OES BCS*      |
| Distillates (petroleum),<br>hydrotreated light<br>(Vapor.) | 64742-47-8 | 200 mg/m3<br>(TWA)       | 07 2009 | CAD AB<br>OEL |

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|                                                                      |            |                           |         |               |
|----------------------------------------------------------------------|------------|---------------------------|---------|---------------|
| Distillates (petroleum),<br>hydrotreated light<br><br>(Non-aerosol.) | 64742-47-8 | 200 mg/m3<br>(TWA)        | 09 2011 | CAD BC<br>OEL |
| Distillates (petroleum),<br>hydrotreated light<br><br>(Non-aerosol.) | 64742-47-8 | 200 mg/m3<br>(TWA)        | 03 2011 | CAD MB<br>OEL |
| Distillates (petroleum),<br>hydrotreated light<br><br>(Non-aerosol.) | 64742-47-8 | 200 mg/m3<br>(TWA)        | 03 2011 | CAD MB<br>OEL |
| Distillates (petroleum),<br>hydrotreated light<br><br>(Non-aerosol.) | 64742-47-8 | 200 mg/m3<br>(TWA)        | 11 2010 | CAD ON<br>OEL |
| Distillates (petroleum),<br>hydrotreated light                       | 64742-47-8 | 525 mg/m3<br>(TWA)        | 11 2010 | CAD ON<br>OEL |
| Distillates (petroleum),<br>hydrotreated light<br><br>(Non-aerosol.) | 64742-47-8 | 200 mg/m3<br>(TWA)        | 11 2010 | CAD ON<br>OEL |
| Distillates (petroleum),<br>hydrotreated light<br><br>(Vapor.)       | 64742-47-8 | 200 mg/m3<br>(8 HR ACL)   | 05 2009 | CAD SK<br>OEL |
| Distillates (petroleum),<br>hydrotreated light<br><br>(Vapor.)       | 64742-47-8 | 250 mg/m3<br>(15 MIN ACL) | 05 2009 | CAD SK<br>OEL |

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

#### Hand protection

Chemical resistant nitrile rubber gloves

#### Eye protection

Safety glasses with side-shields

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

#### General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.



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Keep and wash PPE separately from other laundry.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| <b>Appearance</b>                             | white to light yellow           |
| <b>Physical State</b>                         | powder                          |
| <b>Odor</b>                                   | very faint                      |
| <b>Odour Threshold</b>                        | No data available               |
| <b>pH</b>                                     | No data available               |
| <b>Vapor Pressure</b>                         | No data available               |
| <b>Vapor Density (Air = 1)</b>                | No data available               |
| <b>Bulk density</b>                           | 12.2 lb/ft <sup>3</sup> (loose) |
| <b>Evaporation rate</b>                       | No data available               |
| <b>Boiling Point</b>                          | No data available               |
| <b>Melting / Freezing Point</b>               | No data available               |
| <b>Water solubility</b>                       | insoluble                       |
| <b>Minimum Ignition Energy</b>                | No data available               |
| <b>Decomposition temperature</b>              | No data available               |
| <b>Partition coefficient: n-octanol/water</b> | Not applicable                  |
| <b>Viscosity</b>                              | Not applicable                  |
| <b>Flash point</b>                            | Not applicable                  |
| <b>Auto-ignition temperature</b>              | No data available               |
| <b>Lower explosion limit</b>                  | Not applicable                  |
| <b>Upper explosion limit</b>                  | Not applicable                  |
| <b>Explosivity</b>                            | No data available               |

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### SECTION 10: STABILITY AND REACTIVITY

|                                           |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| <b>Reactivity</b>                         |                                                             |
| <b>Thermal decomposition</b>              | No data available                                           |
| <b>Chemical stability</b>                 | Stable under normal conditions.                             |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use. |

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|                                         |                                                                    |
|-----------------------------------------|--------------------------------------------------------------------|
| <b>Conditions to avoid</b>              | Exposure to moisture.                                              |
| <b>Incompatible materials</b>           | No data available                                                  |
| <b>Hazardous decomposition products</b> | No decomposition products expected under normal conditions of use. |

### SECTION 11: TOXICOLOGICAL INFORMATION

|                                             |                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------|
| <b>Exposure routes</b>                      | Eye contact, Skin Absorption, Ingestion, Inhalation                            |
| <b>Immediate Effects</b>                    |                                                                                |
| <b>Eye</b>                                  | May cause eye irritation.                                                      |
| <b>Skin</b>                                 | Harmful if absorbed through skin. May cause slight irritation.                 |
| <b>Inhalation</b>                           | Inhalation may cause irritation of nasal passages.                             |
| <b>Information on toxicological effects</b> |                                                                                |
| <b>Acute oral toxicity</b>                  | LD50 (Rat) > 5,000 mg/kg                                                       |
| <b>Acute inhalation toxicity</b>            | LC50 (Rat) > 5.4 mg/l<br>Exposure time: 4 h<br>Determined in the form of dust. |
| <b>Acute dermal toxicity</b>                | LD50 (Rabbit) > 2,000 mg/kg                                                    |
| <b>Skin corrosion/irritation</b>            | slight irritation (Rabbit)                                                     |
| <b>Serious eye damage/eye irritation</b>    | Mild eye irritation. (Rabbit)                                                  |
| <b>Respiratory or skin sensitisation</b>    | Skin: Non-sensitizing. (Guinea pig)                                            |

#### Assessment STOT Specific target organ toxicity – repeated exposure

Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.  
Pyrethrin did not cause specific target organ toxicity in experimental animal studies.

#### Assessment mutagenicity

Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Pyrethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.  
Pyrethrin was not carcinogenic in lifetime feeding studies in rats and mice.

#### ACGIH

|                                             |            |          |
|---------------------------------------------|------------|----------|
| Pyrethrins including cinerins               | 8003-34-7  | Group A4 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Group A3 |

#### NTP

None.

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### IARC

|                                             |            |                       |
|---------------------------------------------|------------|-----------------------|
| Piperonyl butoxide                          | 51-03-6    | Overall evaluation: 3 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Overall evaluation: 3 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Overall evaluation: 3 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Overall evaluation: 3 |

### OSHA

None.

### Assessment toxicity to reproduction

Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.  
Pyrethrin did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.  
Pyrethrin did not cause developmental toxicity in rats and rabbits.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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## SECTION 12: ECOLOGICAL INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biodegradability</b>          | Piperonyl butoxide:<br>Not rapidly biodegradable<br>Pyrethrin:<br>Not rapidly biodegradable                                                                                                                                                                                                                 |
| <b>Koc</b>                       | Piperonyl butoxide: Koc: 399 - 830<br>Pyrethrin: Koc: 12472 - 74175                                                                                                                                                                                                                                         |
| <b>Bioaccumulation</b>           | Piperonyl butoxide:<br>Potential bioaccumulation<br>Pyrethrin: Bioconcentration factor (BCF) 471<br>Does not bioaccumulate.                                                                                                                                                                                 |
| <b>Mobility in soil</b>          | Piperonyl butoxide: Moderately mobile in soils<br>Pyrethrin: Immobile in soil                                                                                                                                                                                                                               |
| <b>Environmental precautions</b> | Do not allow to get into surface water, drains and ground water.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Do not apply when weather conditions favor runoff or drift.<br>Apply this product as specified on the label. |

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

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|                               |                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | Dispose in accordance with all local, state/provincial and federal regulations.                                                   |
| <b>Contaminated packaging</b> | Consult state and local regulations regarding the proper disposal of container.<br>Follow advice on product label and/or leaflet. |

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### SECTION 14: TRANSPORT INFORMATION

#### TDG

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| UN number            | <b>3077</b>                                                           |
| Labels               | 9                                                                     |
| Packaging group      | III                                                                   |
| Marine pollutant     | Marine pollutant                                                      |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S.<br>(PYRETHRINS) |

#### 49CFR

|                      |                                                                        |
|----------------------|------------------------------------------------------------------------|
| UN number            | <b>3077</b>                                                            |
| Class                | 9                                                                      |
| Packaging group      | III                                                                    |
| Marine pollutant     | Marine pollutant                                                       |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,<br>N.O.S.<br>(PYRETHRINS) |
| RQ                   | Reportable Quantity is reached with 100 lb of product.                 |

#### IMDG

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| UN number            | <b>3077</b>                                                                   |
| Class                | 9                                                                             |
| Packaging group      | III                                                                           |
| Marine pollutant     | YES                                                                           |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S.<br>(PYRETHRINS MIXTURE) |

#### IATA

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| UN number                | <b>3077</b>                                                                    |
| Class                    | 9                                                                              |
| Packaging group          | III                                                                            |
| Environm. Hazardous Mark | YES                                                                            |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,<br>N.O.S.<br>(PYRETHRINS MIXTURE ) |

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

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Further Information                      Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1.  
This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

Freight Classification:                      INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

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## SECTION 15: REGULATORY INFORMATION

PCP Registration No.                      15255

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## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

|         |                                                                       |
|---------|-----------------------------------------------------------------------|
| 49CFR   | Code of Federal Regulations, Title 49                                 |
| ACGIH   | US. ACGIH Threshold Limit Values                                      |
| ATE     | Acute toxicity estimate                                               |
| CAS-Nr. | Chemical Abstracts Service number                                     |
| CERCLA  | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS  | European inventory of existing commercial substances                  |
| ELINCS  | European list of notified chemical substances                         |
| IARC    | International Agency for Research on Cancer                           |
| IATA    | International Air Transport Association                               |
| IMDG    | International Maritime Dangerous Goods                                |
| N.O.S.  | Not otherwise specified                                               |
| NTP     | US. National Toxicology Program (NTP) Report on Carcinogens           |
| OECD    | Organization for Economic Co-operation and Development                |
| TDG     | Transportation of Dangerous Goods                                     |
| TWA     | Time weighted average                                                 |
| UN      | United Nations                                                        |
| WHO     | World health organisation                                             |

### NFPA 704 (National Fire Protection Association):

Health - 1                      Flammability - 2                      Instability - 0                      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1                      Flammability - 2                      Physical Hazard - 0                      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current Canadian WHMIS standard (WHMIS 2015).

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

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# FICHE DE DONNÉES DE SÉCURITÉ



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### RUBRIQUE 1: IDENTIFICATION DE LA SUBSTANCE/DU MÉLANGE ET DE LA SOCIÉTÉ/L'ENTREPRISE

#### Identificateur de produit

**Nom commercial** DRIONE® INSECTICIDE DUST

**Code du produit (UVP)** 80919476

**Numéro de la FDS** 102000027086

**No. d'Enregistrement PCP** 15255

#### Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

**Utilisation** Insecticide

**Restrictions d'utilisation** Voir l'étiquette pour les restrictions.

#### Information sur le fournisseur

**Fournisseur** Bayer CropScience Inc  
#200, 160 Quarry Park Blvd, SE  
Calgary, Alberta T2C 3G3  
Canada

**Service responsable** E-mail : SDSINFO.BCS-NA@bayer.com

#### Numéro de téléphone d'appel d'urgence

**Numéro de téléphone  
d'appel d'urgence (24  
heures et 7 jours)** 1-800-334-7577

**Numéro de téléphone pour  
des informations sur le  
produit** 1-888-283-6847

### RUBRIQUE 2: IDENTIFICATION DES DANGERS

#### Classifié selon la Partie 2 du Règlement sur les Produits Dangereux

Cette matière n'est pas dangereuse selon les critères de la Partie 2 du Règlement sur les Produits Dangereux.

#### Dangers Non Classifiés Ailleurs (HNOC)

Pas de dangers physiques non classifiés ailleurs.  
Pas de dangers pour la santé non classifiés ailleurs.

### RUBRIQUE 3: COMPOSITION/INFORMATIONS SUR LES COMPOSANTS

| Nom de composants dangereux               | No.-CAS    | Concentration % en poids |
|-------------------------------------------|------------|--------------------------|
| Pyréthrines y compris cinérines           | 8003-34-7  | 1.0                      |
| Pipéronyl butoxide                        | 51-03-6    | 9.7                      |
| Distillats légers (pétrole), hydrotraités | 64742-47-8 | 48.4                     |

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### RUBRIQUE 4: PREMIERS SECOURS

#### Description des premiers secours

|                              |                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conseils généraux</b>     | Si possible, se munir du récipient ou de l'étiquette du produit lors d'un appel à un centre anti-poison ou lors de la consultation médicale.                                                                                                                                                                    |
| <b>Inhalation</b>            | Amener la victime à l'air libre. En cas d'arrêt respiratoire, appeler le 911 ou une ambulance. Puis, pratiquer la respiration artificielle, de préférence, le bouche-à-bouche, si possible. Appeler immédiatement un médecin ou un centre AntiPoison.                                                           |
| <b>Contact avec la peau</b>  | Oter immédiatement les vêtements et les chaussures contaminés. Laver immédiatement et abondamment à l'eau pendant au moins 15 minutes. Appeler immédiatement un médecin ou un centre AntiPoison.                                                                                                                |
| <b>Contact avec les yeux</b> | Garder les yeux ouverts et rincer lentement et délicatement avec de l'eau durant 15-20 minutes. Après les 5 premières minutes, enlever les lentilles cornéennes, si présentes, continuer à rincer l'oeil. Appeler immédiatement un médecin ou un centre AntiPoison.                                             |
| <b>Ingestion</b>             | Appeler immédiatement un médecin ou un centre AntiPoison. Rincer la bouche et faire boire de l'eau par petites gorgées. NE PAS faire vomir sauf sur instructions d'un médecin ou d'un centre anti-poison. Ne jamais rien faire avaler à une personne inconsciente. Ne pas laisser la victime sans surveillance. |

#### Principaux symptômes et effets, aigus et différés

|                  |                                                                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptômes</b> | L'ingestion peut provoquer une irritation de l'appareil digestif, des nausées, des vomissements et des diarrhées., L'ingestion de quantités importantes peut provoquer de troubles du système nerveux central (p.ex. étourdissements, maux de tête). |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

|                   |                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Risques</b>    | Contient des solvants à hydrocarbure. Peut entraîner une pneumonie par aspiration.                            |
| <b>Traitement</b> | Un traitement symptomatique adapté à l'état du patient est recommandé. Il n'existe pas d'antidote spécifique. |

### RUBRIQUE 5: MESURES DE LUTTE CONTRE L'INCENDIE

#### Moyens d'extinction

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Appropriés</b>   | Dioxyde de carbone (CO2), Poudre chimique sèche, Mousse, Eau |
| <b>Inappropriés</b> | Jet d'eau à grand débit                                      |



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|                                                                     |                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dangers particuliers résultant de la substance ou du mélange</b> | En cas d'incendie il y a dégagement de gaz dangereux.                                                                                                                                                                                                                                                                  |
| <b>Conseils aux pompiers</b>                                        |                                                                                                                                                                                                                                                                                                                        |
| <b>Équipements de protection particuliers des pompiers</b>          | En cas d'incendie et/ou d'explosion, ne pas respirer les fumées. Les pompiers doivent porter un appareil respiratoire autonome approuvé par NIOSH et des vêtements de protection appropriés.                                                                                                                           |
| <b>Information supplémentaire</b>                                   | Lutter contre l'incendie du côté du vent. Rester éloigner de la fumée. Refroidir par pulvérisation d'eau les récipients fermés se trouvant à proximité de la source d'incendie. Limiter l'épandage des fluides d'extinction. Ne pas laisser pénétrer l'eau d'extinction contaminée dans les égouts ou les cours d'eau. |
| <b>Point d'éclair</b>                                               | Non applicable                                                                                                                                                                                                                                                                                                         |
| <b>Température d'auto-inflammabilité</b>                            | Donnée non disponible                                                                                                                                                                                                                                                                                                  |
| <b>Limite d'explosivité, inférieure</b>                             | Non applicable                                                                                                                                                                                                                                                                                                         |
| <b>Limite d'explosivité, supérieure</b>                             | Non applicable                                                                                                                                                                                                                                                                                                         |
| <b>Explosivité</b>                                                  | Donnée non disponible                                                                                                                                                                                                                                                                                                  |

## RUBRIQUE 6: MESURES À PRENDRE EN CAS DE DISPERSION ACCIDENTELLE

### Précautions individuelles, équipement de protection et procédures d'urgence

|                    |                                                                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Précautions</b> | Eloigner toute source d'ignition. Tenir à l'écart les personnes non autorisés. Isoler la zone de danger. Eviter tout contact avec le produit répandu ou les surfaces contaminées. |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Méthodes et matériel de confinement et de nettoyage

|                              |                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Méthodes de nettoyage</b> | Eviter toute formation de poussière. Balayer ou aspirer dans des récipients adéquats à fin d'élimination. Nettoyer à fond les objets et le sol souillés en respectant la réglementation sur l'environnement. |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                 |                                                                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conseils supplémentaires</b> | Utiliser un équipement de protection individuelle. En cas de déversement accidentel, empêcher toute infiltration du produit dans le sol et l'écoulement dans les eaux et les égouts. |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                       |                                                                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Référence à d'autres rubriques</b> | Informations concernant la manipulation, voir section 7.<br>Informations concernant les équipements de protection individuelle, voir section 8.<br>Informations concernant l'élimination, voir section 13. |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# FICHE DE DONNÉES DE SÉCURITÉ



## DRIONE® INSECTICIDE DUST

Version 2.0 / CDN  
102000027086

4/11

Date de révision: 12/11/2018  
Date d'impression: 12/13/2018

### RUBRIQUE 7: MANIPULATION ET STOCKAGE

#### Précautions à prendre pour une manipulation sans danger

**Conseils pour une manipulation sans danger** Manipuler et ouvrir le récipient sans renverser le produit. Utiliser uniquement en zone pourvue d'une ventilation avec extraction d'air appropriée.

**Indications pour la protection contre l'incendie et l'explosion** Prendre des mesures pour éviter l'accumulation de charges électrostatiques.

**Mesures d'hygiène** Se laver les mains soigneusement au savon et à l'eau avant de manger, boire, mâcher de la gomme, utiliser des produits du tabac, utiliser les toilettes ou appliquer des produits de beauté.  
Enlever immédiatement l'équipement de protection individuelle (PPE) après la manipulation de ce produit. Enlever immédiatement les vêtements sales et ne les réutiliser qu'après un nettoyage complet. Se laver soigneusement et mettre des vêtements propres.

#### Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

**Exigences concernant les aires de stockage et les conteneurs** Stocker dans un endroit frais et sec en évitant la contamination croisée avec d'autres produits phytosanitaire, engrais, aliments et aliments de fourrage. Stocker dans le conteneur original et hors de la portée des enfants, de préférence dans un endroit de stockage fermé.

### RUBRIQUE 8: CONTRÔLES DE L'EXPOSITION/PROTECTION INDIVIDUELLE

#### Valeur limite d'exposition

| Composants                      | No.-CAS   | Valeur limite d'exposition           | m.à.j.  | Base          |
|---------------------------------|-----------|--------------------------------------|---------|---------------|
| Pyréthrines y compris cinérines | 8003-34-7 | 5 mg/m <sup>3</sup><br>(TWA)         | 07 2009 | CAD AB<br>OEL |
| Pyréthrines y compris cinérines | 8003-34-7 | 5 mg/m <sup>3</sup><br>(TWA)         | 09 2011 | CAD BC<br>OEL |
| Pyréthrines y compris cinérines | 8003-34-7 | 5 mg/m <sup>3</sup><br>(TWA)         | 03 2011 | CAD MB<br>OEL |
| Pyréthrines y compris cinérines | 8003-34-7 | 5 mg/m <sup>3</sup><br>(TWA)         | 11 2010 | CAD ON<br>OEL |
| Pyréthrines y compris cinérines | 8003-34-7 | 5 mg/m <sup>3</sup><br>(8 HR ACL)    | 05 2009 | CAD SK<br>OEL |
| Pyréthrines y compris cinérines | 8003-34-7 | 10 mg/m <sup>3</sup><br>(15 MIN ACL) | 05 2009 | CAD SK<br>OEL |
| Pyréthrines y compris           | 8003-34-7 | 5 mg/m <sup>3</sup>                  | 11 2011 | OEL (QUE)     |

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|                                                            |            |                                    |         |            |
|------------------------------------------------------------|------------|------------------------------------|---------|------------|
| cinérines                                                  |            | (TWA)                              |         |            |
| Pyréthrinés y compris cinérines                            | 8003-34-7  | 5 mg/m <sup>3</sup> (TWA)          |         | OES BCS*   |
| Pipéronyl butoxide                                         | 51-03-6    | 50 ppm (TWA)                       |         | OES BCS*   |
| Distillats légers (pétrole), hydrotraités<br>(Vapeur.)     | 64742-47-8 | 200 mg/m <sup>3</sup> (TWA)        | 07 2009 | CAD AB OEL |
| Distillats légers (pétrole), hydrotraités<br>(Non aérosol) | 64742-47-8 | 200 mg/m <sup>3</sup> (TWA)        | 09 2011 | CAD BC OEL |
| Distillats légers (pétrole), hydrotraités<br>(Non aérosol) | 64742-47-8 | 200 mg/m <sup>3</sup> (TWA)        | 03 2011 | CAD MB OEL |
| Distillats légers (pétrole), hydrotraités<br>(Non aérosol) | 64742-47-8 | 200 mg/m <sup>3</sup> (TWA)        | 03 2011 | CAD MB OEL |
| Distillats légers (pétrole), hydrotraités<br>(Non aérosol) | 64742-47-8 | 200 mg/m <sup>3</sup> (TWA)        | 11 2010 | CAD ON OEL |
| Distillats légers (pétrole), hydrotraités                  | 64742-47-8 | 525 mg/m <sup>3</sup> (TWA)        | 11 2010 | CAD ON OEL |
| Distillats légers (pétrole), hydrotraités<br>(Non aérosol) | 64742-47-8 | 200 mg/m <sup>3</sup> (TWA)        | 11 2010 | CAD ON OEL |
| Distillats légers (pétrole), hydrotraités<br>(Vapeur.)     | 64742-47-8 | 200 mg/m <sup>3</sup> (8 HR ACL)   | 05 2009 | CAD SK OEL |
| Distillats légers (pétrole), hydrotraités<br>(Vapeur.)     | 64742-47-8 | 250 mg/m <sup>3</sup> (15 MIN ACL) | 05 2009 | CAD SK OEL |

\*OES BCS : Valeur limite interne Bayer AG, Crop Science Division pour l'exposition professionnelle (Occupational Exposure Standard)

### Contrôles de l'exposition

#### Équipement de protection individuelle

Dans le cadre d'une manipulation normale et de l'emploi préconisé, l'utilisateur final doit se référer aux indications de l'étiquette. Dans les autres cas il est recommandé d'utiliser les protections suivantes.

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|                                          |                                                                                                                                                                                                                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protection respiratoire</b>           | Lorsque respirateurs sont demandés, choisir l'équipement approuvé par NIOSH en base des concentrations actuelles ou possibles dans l'air et en accord avec les normes réglementaires appropriées et/ou les recommandations de l'industrie.                                                        |
| <b>Protection des mains</b>              | Gants en caoutchouc nitrile résistant aux produits chimiques                                                                                                                                                                                                                                      |
| <b>Protection des yeux</b>               | Lunettes de sécurité avec protections latérales                                                                                                                                                                                                                                                   |
| <b>Protection de la peau et du corps</b> | Porter un vêtement à manches longues, un pantalon, des chaussures et des chaussettes.                                                                                                                                                                                                             |
| <b>Mesures générales de protection</b>   | Nettoyer et entretenir l'équipement de protection individuelle (EPI) en suivant les instructions du fabricant. S'il n'y a pas d'instructions pour le lavage utiliser un détergent et de l'eau chaude.<br>Garder et laver l'équipement de protection individuelle séparément des autres vêtements. |

## SECTION 9. PROPRIETES PHYSIQUES ET CHIMIQUES

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| <b>Aspect</b>                                | blanc à jaune clair                 |
| <b>Etat physique</b>                         | poudre                              |
| <b>Odeur</b>                                 | très faible                         |
| <b>Seuil olfactif</b>                        | Donnée non disponible               |
| <b>pH</b>                                    | Donnée non disponible               |
| <b>Pression de vapeur</b>                    | Donnée non disponible               |
| <b>Densité de vapeur (Air = 1)</b>           | Donnée non disponible               |
| <b>Masse volumique apparente</b>             | 12.2 lb/ft <sup>3</sup> (non tassé) |
| <b>Taux d'évaporation</b>                    | Donnée non disponible               |
| <b>Point d'ébullition</b>                    | Donnée non disponible               |
| <b>Point de fusion / congélation</b>         | Donnée non disponible               |
| <b>Hydrosolubilité</b>                       | insoluble                           |
| <b>Energie minimale d'inflammation</b>       | Donnée non disponible               |
| <b>Température de décomposition</b>          | Donnée non disponible               |
| <b>Coefficient de partage: n-octanol/eau</b> | Non applicable                      |
| <b>Viscosité</b>                             | Non applicable                      |
| <b>Point d'éclair</b>                        | Non applicable                      |
| <b>Température d'auto-</b>                   | Donnée non disponible               |

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### inflammabilité

|                                  |                       |
|----------------------------------|-----------------------|
| Limite d'explosivité, inférieure | Non applicable        |
| Limite d'explosivité, supérieure | Non applicable        |
| Explosivité                      | Donnée non disponible |

## RUBRIQUE 10: STABILITÉ ET RÉACTIVITÉ

### Réactivité

|                                      |                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------|
| Décomposition thermique              | Donnée non disponible                                                            |
| Stabilité chimique                   | Stable dans des conditions normales.                                             |
| Possibilité de réactions dangereuses | Pas de réactions dangereuses connues dans les conditions normales d'utilisation. |
| Conditions à éviter                  | Exposition à l'humidité.                                                         |
| Matières incompatibles               | Donnée non disponible                                                            |
| Produits de décomposition dangereux  | Il n'y a pas de produits de décomposition en utilisation normale.                |

## RUBRIQUE 11: INFORMATIONS TOXICOLOGIQUES

|                                            |                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------|
| Voies d'exposition                         | Contact avec les yeux, Absorption par la peau, Ingestion, Inhalation                 |
| Effets immédiats                           |                                                                                      |
| Œil                                        | Peut provoquer une irritation des yeux.                                              |
| Peau                                       | Nocif en cas d'absorption par la peau. Peut provoquer une irritation légère.         |
| Inhalation                                 | L'inhalation peut irriter le passage nasal.                                          |
| Informations sur les effets toxicologiques |                                                                                      |
| Toxicité aiguë par voie orale              | DL50 (Rat) > 5,000 mg/kg                                                             |
| Toxicité aiguë par inhalation              | CL50 (Rat) > 5.4 mg/l<br>Durée d'exposition: 4 h<br>Déterminé en forme de poussière. |
| Toxicité cutanée aiguë                     | DL50 (Lapin) > 2,000 mg/kg                                                           |
| Corrosion cutanée/irritation cutanée       | irritation légère (Lapin)                                                            |
| Lésions oculaires                          | Irritation légère des yeux. (Lapin)                                                  |

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### graves/irritation oculaire

**Sensibilisation respiratoire** Peau: Non sensibilisant. (Cochon d'Inde)  
**ou cutanée**

### Evaluation de la toxicité spécifique pour certains organes cibles (STOT) - exposition répétée

Pipéronyl butoxide : Cette substance n'a pas provoqué de toxicité organo-toxique spécifique lors des expérimentations animales.

Pyréthrinés : Cette substance n'a pas provoqué de toxicité organo-toxique spécifique lors des expérimentations animales.

### Evaluation de la mutagénèse

Pipéronyl butoxide : Cette substance n'a pas été reconnue comme mutagène ou génotoxique sur la base de nombreuses études in vitro et in vivo de mutagenèse.

Pyréthrinés : Cette substance n'a pas été reconnue comme mutagène ou génotoxique sur la base de nombreuses études in vitro et in vivo de mutagenèse.

### Evaluation de la cancérogénicité

Pipéronyl butoxide : Cette substance n'a pas été reconnue comme cancérigène lors des études chroniques par voie orale chez le rat et la souris.

Pyréthrinés : Cette substance n'a pas été reconnue comme cancérigène lors des études chroniques par voie orale chez le rat et la souris.

### ACGIH

|                                           |            |          |
|-------------------------------------------|------------|----------|
| Pyréthrinés y compris cinérines           | 8003-34-7  | Group A4 |
| Distillats légers (pétrole), hydrotraités | 64742-47-8 | Group A3 |

### NTP

Aucun(e).

### IARC

|                                           |            |                        |
|-------------------------------------------|------------|------------------------|
| Pipéronyl butoxide                        | 51-03-6    | Evaluation globale : 3 |
| Distillats légers (pétrole), hydrotraités | 64742-47-8 | Evaluation globale : 3 |
| Distillats légers (pétrole), hydrotraités | 64742-47-8 | Evaluation globale : 3 |
| Distillats légers (pétrole), hydrotraités | 64742-47-8 | Evaluation globale : 3 |

### OSHA

Aucun(e).

### Evaluation de la toxicité pour la reproduction

Pipéronyl butoxide : Cette substance n'a pas provoqué de toxicité pour la reproduction dans une étude menée sur deux générations chez le rat.

Pyréthrinés : Cette substance n'a pas provoqué de toxicité pour la reproduction dans une étude menée sur deux générations chez le rat.

### Evaluation de la toxicité pour le développement

Pipéronyl butoxide : Cette substance n'a pas provoqué de toxicité développementale chez le rat et le lapin.

Pyréthrinés : Cette substance n'a pas provoqué de toxicité développementale chez le rat et le lapin.

### Information supplémentaire

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C'étaient uniquement des études de toxicité aiguë qui ont été effectuées sur le produit formulé.  
Les informations sur la toxicité non-aiguë concernent la(les) matière(s) active(s).

### RUBRIQUE 12: INFORMATIONS ÉCOLOGIQUES

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biodégradabilité</b>                                  | Pipéronyl butoxide:<br>Pas rapidement biodégradable<br>Pyréthrine:<br>Pas rapidement biodégradable                                                                                                                                                                                                                                                                                                                                 |
| <b>Koc</b>                                               | Pipéronyl butoxide: Koc: 399 - 830<br>Pyréthrine: Koc: 12472 - 74175                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bioaccumulation</b>                                   | Pipéronyl butoxide:<br>Potentiel de bioaccumulation<br>Pyréthrine: Facteur de bioconcentration (FBC) 471<br>Ne montre pas de bioaccumulation.                                                                                                                                                                                                                                                                                      |
| <b>Mobilité dans le sol</b>                              | Pipéronyl butoxide: Modérément mobile dans le sol<br>Pyréthrine: Immobile dans le sol                                                                                                                                                                                                                                                                                                                                              |
| <b>Précautions pour la protection de l'environnement</b> | Ne pas déverser dans les eaux de surface, les égouts et les eaux souterraines.<br>Ne pas contaminer les eaux de surface ou les eaux souterraines par le nettoyage de l'équipement ou l'élimination des déchets, incluant les eaux de lavage de l'équipement.<br>Ne pas appliquer lorsque les conditions météorologiques favorisent la propagation hors des zones traitées.<br>Appliquer ce produit comme spécifié sur l'étiquette. |

### RUBRIQUE 13: CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION

#### Méthodes de traitement des déchets

|                              |                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Produit</b>               | Éliminer en se conformant à tous les règlements locaux, nationaux/provinciaux et fédéraux.                                                                             |
| <b>Emballages contaminés</b> | Consulter les règlements nationaux et locaux concernant l'élimination correcte de containers.<br>Suivre les recommandations sur l'étiquette et/ou la fiche de données. |

### RUBRIQUE 14: INFORMATIONS RELATIVES AU TRANSPORT

#### TDG

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| Numéro ONU                         | 3077                                                                  |
| Étiquettes                         | 9                                                                     |
| Groupe d'emballage                 | III                                                                   |
| Polluant marin                     | Polluant marin                                                        |
| Nom d'expédition des Nations unies | MATIERE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, SOLIDE, N.S.A. |

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(PYRETHRINS)

### 49CFR

Numéro ONU  
Classe  
Groupe d'emballage  
Polluant marin  
Nom d'expédition des Nations unies

**3077**  
9  
III  
Polluant marin  
ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,  
N.O.S.  
(PYRETHRINS)  
Quantité à déclarer (RQ) est atteinte dès 100 lb de produit.

### IMDG

Numéro ONU  
Classe  
Groupe d'emballage  
Polluant marin  
Nom d'expédition des Nations unies

**3077**  
9  
III  
OUI  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(PYRETHRINS MIXTURE)

### IATA

Numéro ONU  
Classe  
Groupe d'emballage  
Marque dangereux pour l'environnement  
Nom d'expédition des Nations unies

**3077**  
9  
III  
OUI  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(PYRETHRINS MIXTURE )

Cette information sur le transport n'a pas pour objectif de couvrir toutes les informations réglementaires liées à ce produit. Elle ne reprend pas les variations réglementaires liées à la taille de l'emballage ou à des exigences spéciales de transport.

### Autres Informations

Exempté de la réglementation si transporté par route ou voie ferrée conformément au règlement sur le TMD 1.45.1.  
Cette exemption permet de ne pas rédiger de document d'expédition des marchandises dangereuses ou de ne pas apposer les indications de dangers des marchandises dangereuses lors d'un transport routier ou ferroviaire.

### Freight Classification:

INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

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## RUBRIQUE 15: INFORMATIONS RELATIVES À LA RÉGLEMENTATION



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No. d'Enregistrement PCP 15255

### RUBRIQUE 16: AUTRES INFORMATIONS

#### Abréviations et acronymes

|              |                                                                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49CFR        | Code de la Réglementation Fédérale, Titre 49                                                                                                                                            |
| ACGIH        | US. ACGIH Valeurs limites d'exposition                                                                                                                                                  |
| ETA          | Estimation de la Toxicité Aiguë                                                                                                                                                         |
| No.-CAS      | Numéro d'enregistrement des Chemical Abstracts Services (CAS)                                                                                                                           |
| CERCLA       | Loi générale des États-Unis sur l'intervention, l'indemnisation et la responsabilité en matière d'environnement (Comprehensive Environmental Response, Compensation, and Liability Act) |
| EINECS       | Inventaire européen des substances chimiques commerciales existantes                                                                                                                    |
| ELINCS       | Inventaire européen des substances chimiques notifiées                                                                                                                                  |
| IARC         | Centre internationale de Recherche sur le Cancer                                                                                                                                        |
| IATA         | International Air Transport Association : Réglementation IATA (Association Internationale du Transport Aérien) pour le transport aérien des marchandises dangereuses                    |
| IMDG         | International Maritime Dangerous Goods : Code maritime international des marchandises dangereuses                                                                                       |
| N.O.S./N.S.A | Not otherwise specified / Non Spécifié par Ailleurs                                                                                                                                     |
| NTP          | US. Programme National de Toxicologie (NTP) Rapport sur les Substances Cancérigènes                                                                                                     |
| OCDE         | Organisation de coopération et de développement économique                                                                                                                              |
| TDG          | Transport des Marchandises Dangereuses                                                                                                                                                  |
| TWA          | Valeur limite de moyenne d'exposition                                                                                                                                                   |
| UN           | Nations Unies                                                                                                                                                                           |
| OMS          | Organisation mondiale de la Santé                                                                                                                                                       |

#### NFPA 704 (National Fire Protection Association) :

Santé - 1      Inflammabilité - 2      Instabilité - 0      Autre - aucun(e)

#### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Santé - 1      Inflammabilité - 2      Danger Physique - 0      PPE -

0 = danger minimal, 1 = danger faible, 2 = danger modéré, 3 = danger sévère, 4 = danger extrême

**Objet de la révision:** Révision selon la réglementation canadienne relative au SIMDUT actuellement en vigueur (SIMDUT 2015).

Préparé par le Département ESS de Bayer CropScience Inc. (306)-721-0310.

**Date de révision:** 12/11/2018

Les informations sont données de bonne foi, et n'exonèrent pas les obligations qui incombent à l'utilisateur. Le destinataire assume toute la responsabilité en matière de sécurité en cas d'usage non conforme aux instructions de l'étiquette. Les noms des produits sont des marques déposées par Bayer.



Label

# **DRIONE<sup>®</sup> INSECTICIDE DUST**

## **COMMERCIAL**

### **INSECTICIDE DUST FOR INDOOR AND LIMITED OUTDOOR USE ON THE EXTERIOR SURFACES OF LISTED STRUCTURES**

For Control of Ants, Cockroaches, Bed Bugs, Silverfish, Fleas,  
Spiders, Crickets and Wasps

#### **ACTIVE INGREDIENTS:**

|                           |       |
|---------------------------|-------|
| Pyrethrins.....           | 1.0%  |
| Piperonyl Butoxide .....  | 9.7%  |
| Amorphous Silica Gel..... | 40.0% |

REGISTRATION NO. 15255 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND THE BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 400 g - 54.20 kg

Bayer CropScience Inc  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, AB T2C 3G3  
Product Information: 1-888-283- 6847  
[www.es.bayer.ca](http://www.es.bayer.ca)

In case of spills, poisoning or fire, telephone emergency response number  
1-800-334-7577 (24 hours a day)

## **FIRST AID:**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention

## **TOXICOLOGICAL INFORMATION:**

Treat symptomatically. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

## **PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed. Avoid contact with skin and avoid inhaling powder.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. When using a mechanical duster, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during mixing, loading and application. For all other types of dust application equipment, wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during mixing, loading and application.

For a complete list of precautionary statements, refer to the booklet.

## **ENVIRONMENTAL PRECAUTIONS:**

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

## **STORAGE:**

Store this product away from food or feed.

## **DISPOSAL:**

1. Thoroughly empty the contents of the container into the application device.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **NOTICE TO USER:**

This Pest control product is to be used only in accordance with the directions on the label. It is an offense under the PEST CONTROL PRODUCTS ACT to use this product in a way that is inconsistent with the directions on the label.

DRIONE® is a registered trademark of Bayer



Booklet

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#### **ACTIVE INGREDIENTS:**

|                           |       |
|---------------------------|-------|
| Pyrethrins.....           | 1.0%  |
| Piperonyl Butoxide .....  | 9.7%  |
| Amorphous Silica Gel..... | 40.0% |

REGISTRATION NO. 15255 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND THE BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 400 g - 54.20 kg

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, AB T2C 3G3  
Product Information: 1-888-283- 6847  
[www.es.bayer.ca](http://www.es.bayer.ca)

In case of spills, poisoning or fire, telephone emergency response number  
1-800-334-7577 (24 hours a day)

## FIRST AID:

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention

## TOXICOLOGICAL INFORMATION:

Treat symptomatically. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

## PRECAUTIONS:

**KEEP OUT OF REACH OF CHILDREN.** Harmful if swallowed. Avoid contact with skin and avoid inhaling powder.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. When using a mechanical duster, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during mixing, loading and application. For all other types of dust application equipment, wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during mixing, loading and application.

DO NOT apply to overhead areas or in confined spaces without appropriate respiratory and eye protection.

DO NOT apply when people or pets are present. DO NOT allow people or pets to

enter treated areas until dusts have settled.

DO NOT allow dusts to deposit onto non-target surfaces. Do not contaminate food or food processing equipment. Cover or remove all food. Cover all food processing surfaces, equipment and utensils or thoroughly wash them following treatment.

Ventilate treated areas after application either by opening windows and doors or using fans, where required, to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used.

## **ENVIRONMENTAL PRECAUTIONS:**

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

## **DIRECTIONS FOR USE:**

This product is a finely divided powder, which combines the flushing and killing powers of pyrethrins and piperonyl butoxide with the dehydrative principle of thermally attrited hydrogel.

It is relatively odorless and non- staining and may be used in accordance with directions in homes, institutions, restaurants, stores, hotels/motels, schools, hospitals, offices, plants (food processing and beverage), warehouses, bakeries, supermarkets, theatres, truck trailers and railroad cars. When used as directed, it is effective in controlling such insects as Ants, Cockroaches, Silverfish, Bed Bugs, Fleas, Spiders, Crickets, and Wasps. DO NOT reapply this product for at least 7 days. DO NOT exceed 23 applications per year.

## **HOW TO APPLY**

**Indoor Broadcast:** Indoor broadcast application is to broad expanses of indoor structural surfaces such as walls, floors, ceilings and indoor foundation walls/crawlspaces.

**Indoor Perimeter:** Indoor perimeter application is less than 0.3 m wide along the edges of a room to baseboards, wall-floor and ceiling-wall joints, and around doorways or windows.

**Crack and Crevice Treatment:** Crack and crevice is an application directly into narrow openings on the surface of the structure. It does not include the treatment of exposed surfaces. Narrow openings typically occur at expansion joints, utility entry points and along baseboards and mouldings.

**Spot Treatment:** Spot application is localized to a surface area not greater than 0.2 m<sup>2</sup>. Spots are not to be adjoining. The combined area of spots is not to exceed 10% of the total surface area of a room.

**Void Treatment:** Void application applies to inaccessible, enclosed empty spaces of a structure. For example, hollow walls and suspended ceilings.

**Furniture Treatment:** Furniture treatment is limited to mattresses, box springs, bed frames and picture frames. Broadcast application covers large areas or the entire surface of listed items. Spot application is up to 10% of the surface of the treated item. Crack and crevice treatments are applications to junction points on items. Tufts and/or seam treatment is to the junction of two or more pieces of fabric and any decorative trim (for example, buttons). Void treatment targets inaccessible empty spaces of items. For example, inside the dust cover, on the underside of furniture or hollow table legs.

## **APPLICATIONS WITHIN**

**FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS: Food processing plants and warehouses, bakeries, beverage plants, restaurants, supermarkets, hotels, motels, hospitals and schools: Limited to Crack and Crevice Treatment Only** - Using a bulbous duster or other suitable equipment, apply a small amount of material directly into cracks and crevices such as expansion joints between different elements of construction or between equipment bases and the floor, wall voids, motor housing, junction boxes or switch boxes, conduits or hollow equipment legs where Cockroaches, Ants, Silverfish, Spiders and Crickets hide. DO NOT allow dust to deposit onto non-target surfaces or introduce the material into the air. Avoid contamination of food or food processing surfaces. Cover or remove all food. Cover all food processing surfaces, equipment and utensils or thoroughly wash them following treatment.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

## **NON-FOOD AREAS:**

**Homes, institutions, hospitals, office buildings, hotels, motels, theatres, schools, truck trailers and railroad cars:**

To control Ants, Cockroaches, Bed Bugs, Silverfish, Fleas, Spiders and Crickets in the non-food areas including animal quarters, distribute Drione at the rate of 60 grams per 10 square metres of surface area. Apply a continuous visible film underneath and behind stoves, refrigerators and appliances. Treat on, around and behind molding, shelving, baseboards, pipe openings, cracks, crevices and other areas where insects are found or suspected of hiding. For severe infestations, apply Drione underneath and behind cabinets and walls, in crawl spaces and attics, at the rate of 500 grams per 100 square metres of surface area.



**Bed Bugs:** Take bed apart. Dust into joints and channels of bed frame. If hollow, such as square or round tubing, see that the interior of framework is well dusted. Mattress should be dusted, especially tufts, folds and edges. Picture frame moldings and all cracks and crevices in the room should be treated.

## **PEST SPECIFIC INSTRUCTIONS FOR NESTS OF WASPS IN WALL VOIDS:**

**To Control Wasp nests in wall voids only,** it is generally advisable to treat wasp nests in the evening when insects are less active and have returned to the nest. Apply 0.25-0.5 grams of DRIONE INSECTICIDE DUST per average size nest. Void application may be made through the indoor or outdoor surface of the wall. To ensure adequate control of wasps in larger nests apply 1.0 - 2.0 g of DRIONE INSECTICIDE DUST per nest. Dust nest and entrance and surrounding areas where insects alight. Nests in wall voids can be located by listening with your ear against the wall. Drill a hole in the area, blow dust in, and reseal. For best results check nest carefully one or two days after treatment to ensure complete kill, then remove and destroy nest to prevent emergence of newly hatched insects. If removal is not feasible, retreat the nest after 7 days if necessary. Care should be taken when treating overhead nests so that neither the product nor the nest falls on people standing below.

## **LIMITED OUTDOOR USE ON THE EXTERIOR SURFACES OF STRUCTURES**

### **TREATMENTS: Limited to Spot Treatment and Crack and Crevice**

**Treatment Only.** To control Ants, Cockroaches, Silverfish, Fleas, Spiders and Crickets: Apply as spot treatment at a rate of 60 grams per 10 square metres or crack and crevice treatment to the exterior surfaces of listed structures such as around windows and doors and other points of entry, under eavestroughs, garages, in enclosed crawl spaces, junction boxes or switch boxes, conduits and trash containers.

## **STORAGE:**

Store this product away from food or feed.

## **DISPOSAL:**

1. Thoroughly empty the contents of the container into the application device.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **NOTICE TO USER:**

This Pest control product is to be used only in accordance with the directions on the label. It is an offense under the PEST CONTROL PRODUCTS ACT to use this product in a way that is inconsistent with the directions on the label.

DRIONE® is a registered trademark of Bayer.



# **DRIONE® INSECTICIDE EN POUDRE**

## **COMMERCIAL**

### **INSECTICIDE EN POUDRE POUR UN USAGE À L'INTÉRIEUR ET UN USAGE RESTREINT À L'EXTÉRIEUR SUR LES SURFACES EXTERNES DES STRUCTURES ÉNUMÉRÉES**

Pour la suppression des fourmis, blattes, punaises des lits,  
lépismes argentés, puces, araignées, grillons et guêpes

**PRINCIPE ACTIF:**

|                                       |       |
|---------------------------------------|-------|
| Pyréthrines.....                      | 1 %   |
| Butoxyde de pipéronyle technique..... | 9,7 % |
| Gel de silice amorphe .....           | 40 %  |

N° D'HOMOLOGATION 15255 – LOI SUR LES PRODUITS ANTIPARASITAIRES

LIRE L'ÉTIQUETTE ET LE LIVRET AVANT L'EMPLOI

GARDER HORS DE LA PORTÉE DES ENFANTS

CONTENU NET : 400 g – 54,20 kg

Bayer CropScience Inc.  
Suite 200, 160 Quarry Park Blvd. S.E.  
Calgary, AB T2C 3G3  
Renseignements sur le produit: 1-888-283- 6847  
[www.es.bayer.ca](http://www.es.bayer.ca)

En cas de déversement, d'empoisonnement ou d'incendie, composer le numéro  
1-800-334-7577 (24 heures par jour)

## PREMIERS SOINS

**En cas d'ingestion:** Appeler un centre antipoison ou un médecin immédiatement pour obtenir des conseils sur le traitement. Ne pas faire vomir à moins d'avoir reçu le conseil de procéder ainsi par le centre antipoison ou le médecin. Ne donner **aucun** liquide à la personne. Ne rien administrer par la bouche à une personne inconsciente.

**En cas de contact avec la peau ou les vêtements :** Enlever tous les vêtements contaminés. Rincer immédiatement la peau à grande eau pendant 15 à 20 minutes. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

**En cas d'inhalation :** Déplacer la personne vers une source d'air frais. Si la personne ne respire pas, appeler le 911 ou une ambulance, puis pratiquer la respiration artificielle, de préférence le bouche-à-bouche, si possible. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

**En cas de contact avec les yeux:** Garder les paupières écartées et rincer doucement et lentement avec de l'eau pendant 15 à 20 minutes. Le cas échéant, retirer les lentilles cornéennes au bout de 5 minutes et continuer de rincer l'œil. Appeler un centre antipoison ou un médecin pour obtenir des conseils sur le traitement.

Emporter le contenant, l'étiquette ou prendre note du nom du produit et de son numéro d'enregistrement lorsqu'on cherche à obtenir une aide médicale

**RENSEIGNEMENTS TOXICOLOGIQUES:** Traiter selon les symptômes. Contient un distillat du pétrole. Le vomissement peut causer une pneumonie par aspiration.

## MISES EN GARDE

**GARDER HORS DE LA PORTÉE DES ENFANTS.** Nocif en cas d'ingestion. Éviter le contact avec la peau et éviter d'inhaler la poudre.

Porter une chemise à manches longues, un pantalon long, des gants résistant aux produits chimiques, des chaussettes et des chaussures pendant le mélange, le chargement, l'application, le nettoyage et les réparations. Lorsqu'utilisé une poudreuse mécanique, porter un appareil de protection respiratoire avec cartouche pour vapeurs organiques approuvé par le NIOSH avec un préfiltre approuvé pour les pesticides ou un appareil de protection respiratoire avec boîte filtrante approuvé par le NIOSH approuvé pour les pesticides pendant le mélange, le chargement et l'application. Pour tous les autres types d'équipement d'épandage de poudre, porter un respirateur à masque filtrant N95 (minimum) approuvé par le NIOSH (masque antipoussière) qui est correctement ajusté, pendant le mélange, le chargement et l'application.

Se référer au livret pour la liste complète des précautions.

## MISES EN GARDE ENVIRONNEMENTALES

Ce produit est toxique pour les poissons. Tenir loin des lacs, des cours d'eau ou des étangs. Ne pas appliquer lorsqu'il y a un risque de ruissellement. Ne pas appliquer lorsque les conditions météorologiques favorisent la dérive à partir des zones traitées. Ne pas contaminer l'eau en nettoyant l'équipement ou en éliminant les déchets.

## ENTREPOSAGE

Entreposer ce produit loin de la nourriture de consommation humaine ou animale.

## ÉLIMINATION

1. Bien vider le contenant dans le système de distribution.
2. Rendre le contenant inutilisable.
3. Éliminer le contenant conformément à la réglementation provinciale.
4. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial. S'adresser également à eux en cas de déversement ainsi que pour le nettoyage des déversements.

**AVIS À L'UTILISATEUR:** Ce produit antiparasitaire doit être employé strictement selon le mode d'emploi qui figure sur la présente étiquette. L'emploi non conforme à ce mode d'emploi constitue une infraction à la *Loi sur les produits antiparasitaires*.

DRIONE<sup>®</sup> est une marque déposée de Bayer.



# DRIONE<sup>®</sup> INSECTICIDE EN POUDRE

## COMMERCIAL

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NE PAS pulvériser les zones surplombantes ou utiliser dans les espaces confinés sans protection respiratoire et oculaire appropriée.

NE PAS appliquer en présence des personnes ou des animaux de compagnie. NE PAS permettre aux personnes ou aux animaux domestiques de pénétrer dans les sites traités avant que le produit pulvérisé n'ait séché.

EMPÊCHER laisser les poussières de se déposer sur les surfaces non ciblées. Ne pas contaminer les aliments ou les équipements de traitement alimentaire. Couvrir ou enlever tous les aliments. Couvrir toutes les surfaces, équipement et ustensiles de traitement alimentaire ou bien les laver après le traitement.

Après l'application, aérer les zones traitées en ouvrant les fenêtres et les portes ou, au besoin, en utilisant des ventilateurs pour faciliter la circulation d'air. Un échangeur d'air ou un système de ventilation, dont la mise en marche a été vérifiée, peut également être utilisé.

## **MISES EN GARDE ENVIRONNEMENTALES**

Ce produit est toxique pour les poissons. Tenir loin des lacs, des cours d'eau ou des étangs. Ne pas appliquer lorsqu'il y a un risque de ruissellement. Ne pas appliquer lorsque les conditions météorologiques favorisent la dérive à partir des zones traitées. Ne pas contaminer l'eau en nettoyant l'équipement ou en éliminant les déchets.

## **MODE D'EMPLOI**

Ce produit est une poudre finement moulue qui allie la puissance de contrôle et d'élimination des pyréthrinés et du butoxyde de pipéronyle à la puissance de déshydratation et d'attrition thermique de l'hydrogel.

Il est relativement inodore et ne tache pas et peut être utilisé, conformément au mode d'emploi, dans les résidences, les institutions, les restaurants, les magasins, les hôtels/motels, les écoles, les hôpitaux, les bureaux, les usines (transformation alimentaire et de boissons), les entrepôts, les pâtisseries, les supermarchés, les théâtres, les remorques de camions et les wagons de chemin de fer. Lorsqu'il est utilisé selon le mode d'emploi, il élimine efficacement les insectes tels que fourmis, blattes, lépismes argentés, punaises des lits, puces, araignées, grillons et guêpes. NE PAS effectuer de nouveau traitement avant au moins 7 jours. NE PAS faire plus de 23 traitements par année.

## **COMMENT APPLIQUER**

**Traitement généralisé à l'intérieur :** Traitement généralisé à l'intérieur consiste à appliquer un produit sur de vastes surfaces à l'intérieur d'une structure. Par exemple : murs, planchers, plafonds, parois intérieures des fondations, vides sanitaires.



**Traitement de périmètre à l'intérieur** : Application d'un produit à l'intérieur en bande étroite d'une largeur inférieure à 0,3 m le long du périmètre d'une pièce, sur les plinthes et les jonctions murs-plancher ou murs-plafond, et autour des cadrages des portes et des fenêtres.

**Traitement des fissures et des crevasses** : Application directe d'un produit dans les petites ouvertures qui s'observent à la surface d'une structure. Il ne comprend pas le traitement des surfaces exposées. Les ouvertures étroites se trouvent généralement à l'emplacement des joints de dilatation, aux points d'entrée des services publics et le long des plinthes et des moulures.

**Traitement localisé** : Application localisée d'un produit sur une superficie qui n'est pas plus grand que 0,2 m<sup>2</sup>. Les sites des traitements localisés ne doivent pas se toucher. La surface totale des traitements localisés doit être inférieure à 10 % de la superficie totale d'une pièce.

**Traitement des cavités** : Application d'un produit dans les espaces vides et inaccessibles à l'intérieur d'une structure, comme les parois creuses et les plafonds suspendus.

**Traitement de mobilier** : Traitement de mobilier est limité aux matelas et sommiers, cadres de lit, encadrements. Un traitement généralisé couvre une grande portion ou toute la surface des articles indiqués. Traitement localisé est une application sur une surface inférieure à 10 % de la totalité de l'article traité. Un traitement des fissures et des crevasses est une application aux points de jonction d'un article. Traitement du capitonnage et/ou des coutures est une application à la jonction de deux ou de plusieurs pièces de tissu cousues ensemble ainsi que sur les garnitures décoratives (p.ex. les boutons). Traitement dans les vides : Pour les espaces vides inaccessibles des articles. Par exemple, à l'intérieur d'une housse anti-poussière, sous les meubles ou dans les pattes creuses de mobilier.

## **APPLICATIONS DANS LES ZONES ALIMENTAIRES ET LES ÉTABLISSEMENTS DE MANIPULATION D'ALIMENTS:**

**Usines de transformation alimentaire et entrepôts, pâtisseries, usines de boissons, restaurants, supermarchés, hôtels, motels, hôpitaux et écoles – Limité au traitement des fissures et crevasses:** à l'aide d'une saupoudreuse souple ou tout autre équipement approprié, appliquer une petite quantité de produit directement dans les fissures et crevasses telles que les joints d'expansion entre les différents éléments d'une construction, entre la base d'un équipement et le plancher, sur les murs, dans le châssis d'un moteur, les boîtiers de raccordement ou les boîtiers d'interrupteurs, dans les conduites ou les pattes d'équipement creux où se cachent blattes, fourmis, lépismes argentés, araignées et grillons. NE PAS laisser les poussières se déposer sur les surfaces non ciblées ou et de faire en sorte que le produit ne se retrouve pas dans l'air ambiant. Éviter de contaminer les aliments et les surfaces de transformation des

aliments. Couvrir ou enlever tous les aliments. Couvrir toutes les surfaces, équipement et ustensiles de traitement alimentaire ou bien les laver après le traitement.

MIS À PART LE TRAITEMENT DES FISSURES ET CREVASSES, IL EST INTERDIT D'APPLIQUER CE PRODUIT DANS DES ZONES ALIMENTAIRES ET DANS LES ÉTABLISSEMENT DE MANIPULATION D'ALIMENTS.

### **ZONES NON ALIMENTAIRES:**

**Résidences, institutions, hôpitaux, immeubles à bureaux, hôtels, motels, salles de cinéma et de théâtre, écoles, remorques de camions et wagons de chemins de fer:**

Pour éliminer les fourmis, blattes, punaises des lits, lépismes argentés, puces, araignées et grillons dans les zones non alimentaires, y compris les zones réservées aux animaux, distribuer Drione à raison de 60 grammes aux 10 mètres carrés de surface. Appliquer en une pellicule continue visible sous et derrière les cuisinières, les réfrigérateurs et les appareils électroménagers. Pulvériser sur, autour et derrière les moulures, les tablettes, les plinthes, les orifices de tuyaux, les fissures, les crevasses et les autres endroits où se trouvent et pourraient se cacher ces insectes. Dans le cas des infestations graves, appliquer Drione sous et derrière les armoires et sur les murs, dans les vides sanitaires et dans les greniers, à raison de 500 grammes aux 100 mètres carrés de surface.

**Punaises des lits:** Démonter le lit. Saupoudrer dans les joints et les coulisses du cadre de lit. S'assurer de bien saupoudrer l'intérieur des structures et des tubes creux. Le matelas doit être saupoudré, en particulier les capitons, les plis et les bordures. Traiter également les moulures des cadres ainsi que toutes les fissures et crevasses de la chambre.

### **LES INSTRUCTIONS SPÉCIFIQUES AUX NIDS DE GUÊPES DANS LES CAVITÉS DES MURS**

**Pour supprimer les nids de guêpes dans les cavités des murs,** il est généralement recommandé de traiter les nids de guêpes en soirée, lorsque les insectes sont moins actifs et doivent retourner au nid. Appliquer l'INSECTICIDE EN POUDRE DRIONE à raison de 0,25 à 0,5 gramme par nid de taille moyenne. Les traitements des cavités peuvent être faites à travers de la surface intérieure ou extérieure du mur. Pour assurer la suppression appropriée des guêpes dans les nids de plus grande taille, appliquer l'INSECTICIDE EN POUDRE DRIONE à raison de 1,0 à 2,0 g par nid. Saupoudrer le nid et l'entrée ainsi que les zones avoisinantes où les insectes se posent. On peut déterminer l'emplacement des nids dans les murs vides en posant l'oreille contre le mur. Percer un trou dans la zone du nid, souffler de la poudre à l'intérieur et sceller le trou. Pour des résultats optimums, vérifier prudemment les nids un ou deux jours après le traitement, pour s'assurer d'avoir éliminé toutes les guêpes, puis enlever et détruire le nid pour prévenir l'éclosion de nouveaux œufs de guêpes. S'il n'est pas possible d'enlever le nid, le traiter de nouveau après 7 jours, au besoin. Lors du traitement des nids situés en hauteur, prendre les précautions requises pour que le produit ou le nid ne tombe pas sur les personnes en dessous.

## **USAGE RESTREINT À L'EXTÉRIEUR SUR LES SURFACES EXTERNES DES STRUCTURES**

**TRAITEMENTS : Limité aux traitements localisés et traitements des fissures et crevasses seulement.** Pour supprimer les fourmis, les blattes, les lépismes argentés, les puces, les araignées et les grillons : Appliquer des traitements localisés à un taux de 60 grammes par 10 mètres carré ou des traitements des fissures et crevasses aux surfaces externes des structures énumérées comme autour des fenêtres et des portes et les autres points d'entrées, sous les gouttières et dans les garages, les vides sanitaires, les boîtiers de raccordement ou les boîtiers d'interrupteurs, dans les conduites et les poubelles.

## **ENTREPOSAGE**

Entreposer ce produit loin de la nourriture de consommation humaine ou animale.

## **ÉLIMINATION:**

1. Bien vider le contenant dans le système de distribution.
2. Rendre le contenant inutilisable.
3. Éliminer le contenant conformément à la réglementation provinciale.
4. Pour tout renseignement concernant l'élimination des produits non utilisés ou dont on veut se départir, s'adresser au fabricant ou à l'organisme de réglementation provincial. S'adresser également à eux en cas de déversement ainsi que pour le nettoyage des déversements.

**AVIS À L'UTILISATEUR:** Ce produit antiparasitaire doit être employé strictement selon le mode d'emploi qui figure sur la présente étiquette. L'emploi non conforme à ce mode d'emploi constitue une infraction à la *Loi sur les produits antiparasitaires*.

DRIONE<sup>®</sup> est une marque déposée de Bayer.

# CB-80<sup>TM</sup>

## INSECTICIDE

### INSECTICIDE WITH PYRETHRINS

Contains Pyrethrins, A Botanical Insecticide

Provides Rapid Kill of Residential, Industrial, and Barn Pests. Excellent Flushing, 8 to 1 Synergist Ratio, Quick Knockdown, Nonaqueous, Highly Active Solvent System, Fast Knockdown and Kill

**KILLS:** Ants, Bed Bugs, Beetles (Carpet Beetles, Confused Flour Beetles, Red Flour Beetles, Sawtoothed Grain Beetles) Cockroaches, Crickets, Fleas, Flies, (Barn Flies, Deer Flies, Stable Flies, Horn Flies), Gnats, Grain Mites, Mosquitoes, Moths (Small Flying Moths, Indian meal Moths, Angoumois Grain Moths), Spiders, Silverfish, Weevils (Granary Weevils, Rice Weevils), Wasps

**FOR USE** in and around Homes, Offices, Hotels, Motels, Schools, Hospitals, Nursing Homes, Day-care Centers, Factories, Warehouses, Stores, Supermarkets, Restaurants, Food Handling Establishments, Commercial or Institutional Kitchens, Food Processing Plants, Bottling Plants, Transportation Equipment (Automobiles, Buses, Trucks, Trailers, Boats, Ships, Trains, Aircraft (Cargo areas only)), Barns, Stables, Farms, Animal Quarters, Milkrooms, and Poultry Houses

**CONTAINS NO CFCs OR OTHER OZONE DEPLETING SUBSTANCES.**

**FEDERAL REGULATIONS PROHIBIT CFC PROPELLANTS IN AEROSOLS.**

**Manufactured By:**



FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104

**Net Weight: 17 oz/482 g**

### FLUSHING & CONTACT

EPA Reg. No. 279-3393

EPA Est. No. 9444-LA-1

#### ACTIVE INGREDIENTS:

Pyrethrins ..... 0.50%

Piperonyl Butoxide\* ..... 4.00%

**OTHER INGREDIENTS\*\*** ..... 95.50%  
100.00%

\*(butylcarbityl) (6-propylpiperonyl) ether and related compounds.

\*\*Contains Petroleum Distillates

### KEEP OUT OF REACH OF CHILDREN CAUTION

See Back Panel for Additional Precautionary Statements.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

##### CAUTION

**Contains Petroleum Distillate.** Causes moderate eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove and wash contaminated clothing before reuse.

##### Personal Protective Equipment (PPE)

Applicators and other handlers must wear the following: long-sleeve shirt, long pants, and shoes and socks.

In addition to the above PPE, applicators using a high pressure handwand or handheld foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

– a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or

– a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or

– a cartridge or canister with any N,R, P or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### User Safety Recommendations

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through run-off. This product has a potential for run-off for several months or more after application. Poorly draining soils and soils with shallow water tables are prone to produce run-off that contains this product. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinseate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the area.

## PHYSICAL OR CHEMICAL HAZARDS

**Flammable.** Contents under pressure. Keep away from heat, sparks and open flames. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not spray on plastic, painted or varnished surfaces or directly into electronic equipment such as radios, TVs, computers, etc.

## FIRST AID

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If Swallowed:** Immediately call a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Note to Physician:** Contains petroleum distillates - may cause an aspiration pneumonia hazard.

**HOTLINE NUMBER** - For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may call 1-800-331-3148, twenty-four (24) hours per day, seven (7) days per week.

## USE RESTRICTIONS

### Entry Restrictions

- For surface spray use: Except when applying to horses and livestock, do not enter or allow others to enter treated area until sprays have dried.
- For space spray use: Except when applying to horses and livestock, do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- When used in hospitals, remove patients prior to treatment. Thoroughly ventilate treated area for 2 hours following treatment prior to returning patients.

### Application Restrictions

- Apply this product only as specified on this label
- Not for use in outdoor residential misting systems.
- Except when applying to horses and livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying to horses and livestock, only protected handlers may be in the area during application.
- Do not remain in treated area. Exit immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed
- Do not wet articles to point of runoff or drip.
- Do not use treated article until spray has dried.
- Remove or cover exposed food and drinking water before application
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use
- Do not contaminate food or feedstuffs
- Do not use in aircraft cabins
- Do not make applications during rain.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label: (1) Applications to soil or vegetation, as listed on this label, around structures; (2) Applications to lawns, turf, and other vegetation, as listed on this label; (3) Applications to the side of a building, up to a maximum height of 3 feet above grade; (4) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure; (5) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width; and (6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.
- For indoor food handling/processing facilities: Do not make surface space spray applications when facility is in operation. During space spray applications, cover or remove exposed food. Prior to space spray applications, cover food processing surfaces or clean after treatment and before use. Do not apply more than 1 time per day.
- For agricultural premises and commercial animal housing: Do not apply more than 1 time per day.
- For direct application to non-domestic animals/livestock: Do not apply more than 1 time per day.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- Remove pets, birds and cover fish aquariums before application.
- Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Test first for staining on an inconspicuous area of surface to be treated prior to use

### **General Volumetric Application – (Including Inaccessible Voids - Attics, False Ceilings, Wall and Equipment Voids):**

Open cabinets and doors in area to be treated. Shut off air conditioners, fans, and close doors and windows before spraying. Spray for 20 seconds per 1,000 cubic feet of space. Direct spray toward areas suspected of harboring insects. Spray into hiding places such as cracks and crevices, behind sinks, cabinets, along baseboards and floors, around drains and plumbing, hitting insects with spray whenever possible. Keep area closed for 15 minutes. Open and ventilate before reoccupying. Repeat treatment as necessary. Note: when using this product in an enclosed area, such as a milkroom, barn or stable, remove animals before spraying.

**FLYING INSECTS: Flies, Mosquitoes, Small Flying Moths, Wasps, Gnats** – Calculate cubic feet of space to be treated. Close all doors and windows. Spray in sweeping motion to all parts of the room. Apply for 2-3 seconds per 1,000 cubic feet of space. Remove fallen insects. Repeat treatment as necessary.

**FOR INDIANMEAL MOTHS AND ANGOUMOIS GRAIN MOTHS:** Close doors and windows. Direct spray into all parts of room especially around stored food product containers, pallets and darkened areas. Spray 7 to 10 seconds for each 1,000 cubic feet of space. Keep area closed for 15 minutes following treatment. Repeat application weekly or as needed.

### **Crack & Crevice Applications:**

Spray in cracks and crevices, using the crack and crevice injector provided. Spray the insect directly when possible. Spray all probable hiding places such as cracks, crevices, baseboards, sinks, cabinets, shelves, under appliances, and in food storage areas.

**FOR COCKROACHES, SPIDERS, CRICKETS AND SILVERFISH:** For best results, spray directly on cockroaches and thoroughly spray all parts of the room suspected of harboring these pests. Special attention should be paid to cracks, hidden surfaces, under sinks, behind stoves and refrigerators, food storage areas, and wherever these pests are suspected of hiding. Also, spray around door- and window frames. Repeat as necessary.

**FOR ANTS:** Spray ant trails, nests and points of entry. For initial clean-up, apply for 10-15 seconds per 100 square feet of floor area. Then periodically spray as a space treatment for 3-5 seconds per 100 cubic feet of space.

**FOR CONFUSED FLOUR BEETLES, SAWTOOTHED GRAIN BEETLES, GRANARY WEEVILS, RICE WEEVILS, RED FLOUR BEETLES, GRAIN MITES:** Spray into cracks and crevices, processing and handling equipment, around cartons or containers and other areas where these insects tend to congregate. Spray 30 seconds for each 100 square feet of surface. Keep area closed for 45 minutes to 1 hour after treatment. Repeat application as necessary. Infested stored food products in the home should be disposed of.

**FOR BEDBUGS:** Thoroughly inspect area of suspected bed bug infestation, and note potential harborage sites or actual infestations. Remove all clothing and other articles from area to be treated (including inside of dressers or closets). Infested bedding (pillows and linens), clothing, and other items must be removed and sanitized prior to application. Do not use directly on pillows, bed linens or clothes. Apply to mattresses as a spot treatment to mattress seams, edges, and tufts of bed only. Apply as a crack & crevice or spot application where evidence of bed bugs occurs, including box springs, bedsprings, the interior of the bed frame and headboard, including all crack and crevices, and joints. Do not saturate the mattress, and do not make surface applications to the mattress or bedding. Allow mattress to dry thoroughly before remaking bed. Apply as a surface application to carpeting, drapes, and flooring. Allow all treated areas to dry thoroughly before use. Use straw applicator for crack and crevice applications.

### **Surface Applications:**

**FOR FLEAS:** Do not use this product directly on domestic (companion) animals (dogs, cats, puppies, or kittens). Spray sleeping quarters, bedding, floor and floor covering where pets are kept. Repeat as necessary.

**FOR CARPET BEETLES:** Spray directly on beetles, baseboards, floors, shelves and carpets. Repeat treatment as necessary.

**Dairy Farm, Horse Barn, Beef, Cattle, Hog/Swine, and Poultry Operation Use:** Close all windows and doors. Direct spray upwards, spraying for 2-3 seconds per 1,000 cubic feet of space. Do not remain in treated areas. Thoroughly ventilate after treatment. Cover milking utensils and milk to prevent contamination from spray or dead and falling insects.

**POULTRY OPERATIONS:** In poultry houses, close all windows and doors. Spray roosts, walls, nests, and cages thoroughly. Spray at the rate of 2-3 seconds per 1,000 cubic feet of space. Do not remain in treated areas. After 15 minutes, ventilate the area. Treat daily or as necessary.

**For Direct Application to Livestock Animals:** Do not use this product directly on domestic (companion) animals (dogs, cats, puppies, or kittens). Thoroughly spray entire animal from approximately 2 feet distance. Do not spray directly toward animal's eyes. Spot treat withers, shoulders, and back where saliva accumulates from head tossing.

**STANCHION BARN USE:** Walk behind animals and direct spray over backs, allowing 5 seconds per animal. For most effective results, apply each morning.

**HORSE BARN OR STABLES:** For animal application, lightly mist over back of horses and ponies from a distance of 2 feet. Do not spray directly toward the animal's face or eyes. Repeat application daily or as necessary.

**HOG/SWINE USE:** For animal application, direct spray over back of hogs and spray for 5 seconds per hog. Do not spray directly towards the animal's face or eyes. Repeat application daily or as necessary.

### **Applications in Aircraft:**

This product can be applied to cargo areas of aircraft only. Do not use in aircraft cabins.

## STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Do not store near heat or open flame. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**Pesticide Disposal and Container Handling:** Do not puncture or incinerate! **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.





# CimeXa™

**insecticide dust**

**For Control of:** Ants, Cockroaches, Firebrats, Silverfish, Spiders, Mites, Bed Bugs, Lice, Fleas, Ticks, and Drywood Termites

**Kills Bed Bug Adults and Nymphs**  
**Kills Bed Bug Nymphs Hatched from Dusted Eggs**  
**Kills Pyrethroid-Resistant Bed Bugs**  
**Provides Fast Control**  
**Lasts Up to Ten Years When Undisturbed**  
**Odorless**  
**Non-Staining**

**Active Ingredient: Amorphous Silica Gel.....100%**  
**Total.....100%**

**EPA Reg. No. 73079-12**  
**EPA Est. No. 73079-MO-1**

**Net Contents: 4 oz, 5 lbs**

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Use Restrictions:** In edible product areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed, or in serving areas when food is exposed, this product may only be applied as a crack and crevice treatment. Any product remaining outside of cracks and crevices must be cleaned up and removed.

## Application Directions

**Use Sites:** In and around residential, multi-family, commercial, industrial, institutional, municipal, agricultural, research, daycare, health care, educational, recreational, and office buildings, hotels, motels, garages, transport vehicles, warehouses, theaters, and food handling and food processing establishments.

**General Information:** CimeXa™ is a dessicant dust that has no odor and will not stain. When pests contact CimeXa™, the product clings to their exoskeleton and absorbs the waxy coating, causing death from dehydration.

**Application Rates and Methods:** Apply at a rate of 2 ounces per 100 square feet. In attics and crawlspaces, apply at a rate of 1 lb per 1000 square feet. Use a handheld bellows, bulb or puffer bottle type duster to apply a light, visible film. A power duster may also be used. Power duster use is limited to cracks, crevices, voids, attics and crawlspaces to insure containment of dust particles. Liquid Application: The product may be used as a spray, paint on application, or foam. Combine 1 lb of product with 1 gallon of clean water. Apply approximately 1 quart of solution per 250 square feet of area to be treated. The product does not dissolve in water and will be left behind after evaporation. For injection treatment, add the appropriate amount of foaming agent to the product/water slurry and inject directly into galleries and voids.

**General Pest (Ants, Cockroaches, Firebrats, Silverfish, Spiders, Mites) Treatment:** Treat attics, crawl spaces, trash closets, utility closets, behind baseboards, around the perimeter of dropped ceilings, in hollow furniture legs; under and behind bedding, appliances and vending machines; in wall voids and voids under and behind cabinets, sinks and tubs; in drawer wells, garbage chutes, pipe chases, weep holes in brick or siding, elevator pits, around drains, around electrical conduits and in cracks and crevices where insects may harbor. Focus application in areas where insects or their signs are seen.

## Application tips for certain use sites follow:

1. In attics, be sure to get dust near the eaves and vent pipes where insects often first enter, as well as around any pipes or potential access points between the attic and the main structure.
2. When treating cabinetry areas, if there is no gap between the lower cabinets and the kick plate, then small holes can be drilled to access the voids. Escutcheon plates around pipes can also be pulled back to allow access to voids.
3. The bottom drawers in kitchen and bathroom cabinets can be removed and dust applied into drawer wells. No dust should be left exposed when drawers are replaced.
4. Electrical switch plate covers can be removed to allow access to voids, but dust shouldn't be applied directly in electrical boxes.
5. If there are cracks between baseboards, cabinets, doorframes, hinges, counters or trim, and walls, these cracks can be lightly dusted with product. If practical, these areas can be

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

## PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals: CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

## First Aid

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

sealed once insect problems have been eliminated, to help prevent future problems.

6. Insects need moisture, so kitchen and bath areas and areas immediately surrounding them, and any other damp areas should be carefully inspected and treated if necessary.

**Bed Bug Treatment:** Remove bedding and take the bed apart. Treat the interior framework, joints and cracks in the bed frame. Treat the mattress and box spring, paying particular attention to tufts, folds and edges, and the interior framework of the box spring. Remove wall-mounted head boards and treat the back side. Treat picture frames, moldings, hollow furniture legs, cracks and crevices, along baseboards, and any areas with visible signs of infestation, including rugs and carpet. Treat upholstered furniture by removing or lifting (if possible) the cushions and treating the undersurface. Treat the interior framework, cracks and joints of the furniture, and the folds, tufts and edges of cushions and other upholstered areas. Do not treat toys and stuffed animals with product. Treat wall voids by removing electrical switch plate covers to allow access, but don't apply dust directly in electrical boxes. Apply about 1/4 oz of dust to each accessible void.

**Flea, Lice and Tick Treatment:** Treat kennels, pet bedding/rest areas, floor and floor coverings, cracks behind molding and baseboards and other areas where pests may harbor.

**Drywood Termite Treatment:** For existing infestations of drywood termites, use a drill or probe to locate and access galleries and inject product directly into galleries. An electric or pneumatic duster which produces a pressure of at least 30 psi and no more than 175 psi should be used to force dust throughout galleries. Any holes left in framing covering must be closed and sealed.

**Drywood Termite Prevention:** Apply at a rate of 1 lb per 1000 square feet in attics and crawlspaces so that the product coats wood members. Drill periodic access holes into wall and ceiling voids and inject the dust at a rate of 1 lb per 1000 square feet of surface area. Insure sufficient holes are drilled to cover interior framing in voids. The working pressure range of electric or pneumatic dusters should be from 30 to 175 psi and the air supply should be dried if the relative humidity is higher than 50%.

**Food Processing and Handling Establishment Application, including Federally-Inspected Meat and Poultry Plants:** In food areas, only apply dusts in cracks, crevices, and other inaccessible areas. Avoid contamination of food and feedstuffs. Avoid introducing the product into the air. Never apply powder directly to a surface where food is stored, prepared or served. Any dust that is left visible after treatment should be removed and the exposed surface washed. Food areas include: processing areas, including enclosed systems such as syrup and oil plants, dairies, and mills; packing areas, including bottling, canning, wrapping and boxing; receiving areas; storage areas, including edible waste storage; and serving areas, such as dining rooms. In these areas, dust sparingly into cracks and crevices, such as along baseboards and between construction elements. Do not apply when facility is in operation or when food is exposed. Do not treat surfaces likely to be contacted by food.

## Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Store in a dry place. Do not store where children or animals may gain access.

**Disposal: If Empty:** Non-refillable container. Do not reuse this container. Place in trash or offer for recycling if available. **If Partly Filled:** Call your local solid waste agency or 1-800-CLEANUP which is managed as a public-private partnership.

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## 1. PRODUCT IDENTIFICATION

### 1.1. Product Identifiers

Product name : **CimeXa™ Insecticide Dust**

### 1.2. Other Means of Identification

Product synonyms : none

### 1.3. Recommended Uses/Restrictions to Use

Uses : Amorphous silica gel dust for the control of various pest species per label

Restrictions : See product label for details

### 1.4. Supplier Details

Company : Rockwell Labs Ltd  
1257 Bedford Avenue  
North Kansas City, MO 64116-4308  
USA

Telephone : 1 816-283-3167

### 1.5. Emergency Contact

Outside normal business hours

Emergency Phone # : 1 800-424-9300 (USA & Canada)  
1 703-527-3887 (Outside USA & Canada)

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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of Substance or Mixture

none

### 2.2. GHS label elements, including precautionary statements

Pictogram(s) none

Signal word none

Hazard statement(s)  
none

Precautionary statement(s)  
None



**2.3. Other hazards which do not result in classification**

This product is very absorbent and may have a drying effect on skin and eyes.

When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

| Chemical Identity                     | Contains (% w/w) | CAS-No.   | Hazard Classification |
|---------------------------------------|------------------|-----------|-----------------------|
| Silicon Dioxide (as amorphous silica) | 89-95            | 7631-86-9 | none                  |

**3.2. Mixtures**

Not applicable

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**4. FIRST AID MEASURES****4.1. Description of first aid measures****General advice**

Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

**If inhaled**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

**In case of skin contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**In case of eye contact**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed**

None known

**4.3. Indication of any immediate medical attention and special treatment needed, if necessary**

None known

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**5. FIRE FIGHTING MEASURES****5.1. Extinguishing media**

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2. Specific hazards arising from the chemical**

No data available

**5.3. Special protective equipment and precautions for fire fighters**

Wear self contained breathing apparatus for firefighting if deemed necessary.

Additional information: none.

**5.4. Further information**

No data available

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**6. ACCIDENTAL RELEASE MEASURES**
**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with spilled product and contaminated surfaces. Evacuate personnel to safe areas during emergencies. For safe handling instructions see section 7. For proper PPE see section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**6.3. Methods and materials for containment and cleaning up**

Sweep up any spilled material and dispose of according to instructions in section 13. Vacuuming or wet sweeping may be used to avoid dust dispersal. Wash contaminated surfaces with soap and water.

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**7. HANDLING AND STORAGE**
**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene practices. Wash hands thoroughly with soap and water after use and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse. For additional precautions see section 2.2.

**7.2. Conditions for safe storage, including any incompatibilities**

Store product tightly sealed in original container. Store in a dry location. Do not store where children or animals may gain access.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1. Control parameters**

Components with workplace parameters

| Component        | CAS-No.   | Value | Control parameters                           | Basis                                            |
|------------------|-----------|-------|----------------------------------------------|--------------------------------------------------|
| Amorphous silica | 7631-86-9 | IDHL  | 3000 mg/m <sup>3</sup>                       | -----                                            |
|                  |           | TWA   | 80 mg/m <sup>3</sup> / %<br>SiO <sub>2</sub> | OSHA PEL                                         |
|                  |           | TWA   | 6 mg/m <sup>3</sup>                          | NIOSH REL                                        |
|                  |           | TWA   | 10*, 5** mg/m <sup>3</sup>                   | ACGIH TLV<br>*Total dust, ** Respirable fraction |

**8.2. Appropriate engineering controls**

Ensure relevant engineering controls are employed to prevent exceeding threshold values for the listed control parameters in section 8.1.

**8.3. Individual protection measures, such as personal protective equipment (PPE)**

In normal use and handling conditions refer to the product label for required PPE. In all other cases the following recommendations would apply.

**Eye/face protection**

Safety glasses or other similar eye protection conforming to ANSI Z87.1 standards recommended when handling product.

**Skin protection**

Chemical resistant nitrile rubber or similarly compatible gloves recommended when handling product. Dispose of contaminated gloves after use in accordance with applicable local and state regulations. Wash exposed skin with soap and water immediately. Wash all contaminated clothing prior to reuse.

**Respiratory protection**

Not required under normal use conditions. When risk assessment shows need for air-purifying respirators use NIOSH approved respirators when handling material with the following airborne concentrations:

Up to 30 mg/m<sup>3</sup>:

(APF = 5) Any quarter-mask respirator.

Up to 60 mg/m<sup>3</sup>:

(APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.

(APF = 10) Any supplied-air respirator

Up to 150 mg/m<sup>3</sup>:

(APF = 25) Any supplied-air respirator operated in a continuous-flow mode

(APF = 25) Any powered, air-purifying respirator with a high-efficiency particulate filter.

Up to 300 mg/m<sup>3</sup>:

(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.

(APF = 50) Any supplied-air respirator that has a tight-fitting facepiece and is operated in a continuous-flow mode

(APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter

(APF = 50) Any self-contained breathing apparatus with a full facepiece

(APF = 50) Any supplied-air respirator with a full facepiece

Up to 3000 mg/m<sup>3</sup>:

(APF = 1000) Any supplied-air respirator operated in a pressure-demand or other positive-pressure mode

**Thermal hazards**

None known

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

**CimeXa™ Insecticide Dust****Safety Data Sheet**

Release Date: 9/16/2020

Print Date: 9/16/2020

Version 1.2

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Appearance;                                   | White powder             |
| Odor;                                         | Odorless                 |
| Odor threshold;                               | No data available        |
| pH;                                           | 2.0 – 4.5 (20 °C)        |
| Melting point/freezing point;                 | >1700 °C (>3092 °F)      |
| Initial boiling point and boiling range;      | >1700 °C (>3092 °F)      |
| Flash point;                                  | No data available        |
| Evaporation rate;                             | No data available        |
| Flammability (solid, gas);                    | Product is not flammable |
| Upper/lower flammability or explosive limits; | No data available        |
| Vapor pressure;                               | No data available        |
| Vapor density;                                | No data available        |
| Relative density;                             | 0.24 g/ml                |
| Solubility;                                   | Insoluble                |
| Partition coefficient: n-octanol/water;       | No data available        |
| Auto-ignition temperature;                    | No data available        |
| Decomposition temperature;                    | No data available        |
| Viscosity;                                    | No data available        |

**9.2. Additional Information**

No data available

---

**10. STABILITY AND REACTIVITY****10.1. Reactivity**

No dangerous reactions known.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

Other decomposition products – no data available

In the event of a fire: see Section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute Toxicity

LD50 Oral – Rat – > 5000 mg/kg

LD50 Dermal – Rat – > 6000 mg/kg

LD50 Inhalation – Rat – > 2000 mg/m<sup>3</sup>/4h

Maximum attainable concentration, mortality does not appear.

#### Skin corrosion/irritation

Skin – Rabbit

Results: not an irritant

(OECD Test Guideline 404)

#### Serious eye damage/irritation

Eye – Rabbit

Results: not an irritant

(OECD Test Guideline 405)

#### Respiratory or skin sensitization

Not a known sensitizer

#### Germ cell mutagenicity

AMES Test – > 5 mg/plate (in vitro)

Results: negative, with and without metabolic activation

(OECD Test Guideline 471)

#### Carcinogenicity

IARC: Category for silica, amorphous (7631-86-9) applies to silicas that may contain crystalline silica.

The silica in this product is synthetic and does not contain crystalline silica. IARC: Category 3.

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

#### Repeated Dose Toxicity

Oral – NOAEL (90 d) – Rat

Results: 9000 mg/kg bw/day

(OECD Test guideline 408)

Inhalative – NOAEC (90 d) – Rat

Results: 1 mg/m<sup>3</sup> (rat)

(OECD Test Guideline 413)

#### Reproductive toxicity

Oral – NOAEL (maternal toxicity/teratogenicity) – Rat

Results: 1350 mg/kg bw/day

(OECD Test Guideline 414)

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

#### **11.2. Other information**

No data available

---

## **12. ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Toxicity to fish

LC50 – Danio rerio (Zebra Fish) - > 10,000 mg/l – 96 h

Toxicity to daphnia

EC50 – Daphnia magna (Water flea) - > 1000 mg/l – 24 h

and other aquatic

EC50 – Scenedesmus subspicatus (Algae) - > 10000 mg/l – 72 h

invertebrates

### **12.2. Persistence and degradability**

Amorphous silica dioxide is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.

### **12.3. Bioaccumulative potential**

Does not accumulate in organisms.

### **12.4. Mobility in soil**

No data available

### **12.5. Other adverse effects**

No data available

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## **13. DISPOSAL CONSIDERATIONS**

### **13.1. Disposal Methods.**

The best disposal method is to use the entire quantity per label directions. If it is necessary to dispose of unused material then follow the label instructions and relevant local, state and federal waste disposal guidelines.

#### Product Disposal:

Do not contaminate water, food or feed by storage or disposal.

#### Packaging Disposal:

If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP which is managed as a public-private partnership.

See section 8 for proper PPE and precautionary handling measures.

---

**14. TRANSPORT INFORMATION****DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**Not dangerous goods

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**15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**KEEP OUT OF THE REACH OF CHILDREN****CAUTION**

Causes moderate eye irritation.

Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

None

**California Proposition 65 Components**

This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or reproductive harm.

**TSCA**

All components of this product are listed, exempted, or excluded from listing on the U.S. Toxic Substances Control Act chemical substance inventory.

---

**16. OTHER INFORMATION****Acronyms and abbreviations used**

|         |                                                       |
|---------|-------------------------------------------------------|
| LD50    | Lethal Dose, 50%                                      |
| OECD    | Organization for Economic Cooperation and Development |
| IARC    | International Agency for Research on Cancer           |
| ACGIH   | American Conference of Industrial Hygienists          |
| NTP     | National Toxicology Program                           |
| OSHA    | Occupational Safety and Health Administration         |
| DOT     | Department of Transportation                          |
| IMDG    | International Maritime Dangerous Goods                |
| IATA    | International Air Transport Association               |
| SARA    | Superfund Amendments and Reauthorization Act          |
| TSCA    | Toxic Substances Control Act                          |
| CAS-No. | Chemical Abstract Services - Number                   |
| PPE     | Personal Protective Equipment                         |
| HMIS    | Hazardous Materials Identification System             |
| NFPA    | National Fire Protection Association                  |
| PPM     | Parts Per Million                                     |
| TWA     | Time Weighted Average                                 |
| IDLH    | Immediately Dangerous to Life or Health               |
| PEL     | Permissible Exposure Limit                            |
| REL     | Recommended Exposure Limit                            |
| TLV     | Threshold Limit Value                                 |
| LC50    | Lethal Concentration, 50%                             |
| EC50    | Effective concentration, half maximal                 |
| ANSI    | American National Standards Institute                 |
| APF     | Assigned Protection Factor                            |

**Hazard Rating System Crossover**

| <u>HMIS Rating</u> |   | <u>NFPA Rating</u> |   |
|--------------------|---|--------------------|---|
| Health Hazard:     | 0 | Health Hazard:     | 0 |
| Flammability:      | 0 | Flammability:      | 0 |
| Reactivity:        | 0 | Reactivity:        | 0 |

**Preparation information**

|                      |                            |
|----------------------|----------------------------|
| Prepared by:         | Rockwell Labs Ltd          |
| Version:             | 1.2                        |
| Revision Date:       | September 16, 2020         |
| Reason for revision: | Minor reformatting changes |





## CimeXa™ Insecticide Dust

## Safety Data Sheet

Release Date: 9/16/2020

Print Date: 9/16/2020

Version 1.2

Notice to Reader: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Rockwell Labs Ltd provides no warranties, express or implied, and assumes no responsibility for the accuracy and completeness of the data contained herein. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are trademarks of Rockwell Labs Ltd.

[CIRKIL CX Container Label - Front Panel]



INSECTICIDE AND OVICIDE  
CONCENTRATE

Controls, Manages and Prevents Bed Bug Infestations  
Kills Bed Bug Adults, Nymphs and Their Eggs

- ✓ Plant Based Botanical Insecticide
- ✓ Continues Killing and Preventing Egg Hatch for Weeks after Treatment \*
- ✓ Effective Against Pyrethroid Resistant Strains
- ✓ Works Quickly \*

\* When used as directed

KEEP OUT OF REACH OF CHILDREN

CAUTION

READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

If you do not understand the label, find someone to explain it to you in detail.  
*(Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.)*

Active Ingredient:  
Cold Pressed Neem Oil ..... 22.0%  
Other Ingredients ..... 78.0%  
Total ..... 100.0%

| Route of Entry | First Aid                                                                                                                                                                                                                                                                                                                                |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If Swallowed   | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul> |

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 7:30 am to 3:30 pm Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu))

See back panel for **Precautionary Statements, Directions for Use, Storage and Disposal, and Conditions of Sale and Warranty.** CX-120530GL02

Manufactured by Terramera, Inc.  
6920 Salashan Pkwy D-109  
Ferndale, WA 98248  
1-800-597-9509  
**Made in the USA**

EPA Registration No. 88760-2  
EPA Est. No. 84830-IA-001  
Patents-Pending  
For Commercial Use  
Net Contents: 32 oz.



Die Line

## [CIRKIL CX Container Label - Back Panel (Peel-off)]

### [Back Label - Page 1 (outside)]

#### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS** CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label. Use strictly in accordance with precautionary statements and directions, and with applicable state and Federal regulations.

**General Information:** CIRKIL® CX is a concentrated liquid insecticide and ovicide for indoor use containing 22% pure cold pressed neem oil, and requires dilution prior to use. CIRKIL® CX provides effective knockdown, residual and preventative control of bed bugs, including pyrethroid-resistant bed bugs, and their eggs. CIRKIL® CX kills bed bugs and eggs and helps manage the spread of pesticide resistance. Use CIRKIL® CX to control bed bugs and cellar spiders<sup>†</sup>.

**For Bed Bug Control:** CIRKIL® CX is an emulsifiable concentrate. Dilute product with water prior to use according to the Mixing Instructions. A broadcast or directed sprayer, such as a hand pump or pressurized sprayer (e.g. gallon tank or handheld pump sprayer) or other similar equipment, may be used for uniform and even application. Spray until moist. Allow to dry completely. For optimal performance, close doors and windows and turn off air circulation (e.g. heaters and air conditioners) and keep site of application undisturbed for at least 4 hours after treatment. After 4 hours, return to normal ventilation and allow reentry into treated area. For crack and crevice applications, use a straw tip or pin tip nozzle. Use CIRKIL® CX on a variety of indoor surfaces, fabrics and materials, painted and unpainted wood, under beds, box springs, bed frames, headboards, mattresses, linens, under and behind night stands, closets, dressers, curtains, blinds, under and behind wall hangings, carpets, rugs, upholstery, wall and window treatments, suitcases, seams, points where carpets and wall meet, moldings, and anywhere bed bugs may harbor or their eggs may be found. Spraying all surfaces, especially tufts, folds, seams, edges, cracks and crevices, will help minimize further infestation.

CIRKIL® CX may cause damage or discolor certain surfaces and materials, including papers and soft plastics such as plexiglass, plastic varnishes, some flooring and finishes, frames, photographs, artwork, wallpaper and consumer electronics. Make small inconspicuous spot treatments to test all surfaces and fabrics for colorfastness, discoloration or damage before use. Use CIRKIL® CX in indoor areas including residential homes, multi-dwelling units, apartments, dormitories, hospitals, nursing homes, prisons, temporary shelters, aircraft, buses, marine vessels, airports, offices, theaters, hotels, motels, restaurants, lounges, arenas, retail stores, conference centers and other indoor spaces.

<sup>†</sup> Cellar spider use not registered in California

See inside for additional **Directions for Use, Storage and Disposal, and Conditions for Sale and Warranty.**



Peel Here



### [Back Label - Page 2 (inside, left)]

#### DIRECTIONS FOR USE (continued)

CIRKIL® CX works as a direct or indirect treatment (when wet or dried as a residue on treated surfaces). **For Direct Treatment:** Apply CIRKIL® CX to kill bed bugs or eggs by spraying directly. **For Indirect Residual Treatment:** Apply CIRKIL® CX to surfaces and fabrics to kill or prevent bed bug infestations for up to 2 weeks and eggs for up to 3 weeks.

**Mixing Instructions:** Mix 1 part CIRKIL® CX with 3 parts water.

To make one gallon of CIRKIL® CX:

- 1) Pour a small amount of water into tank before adding product (e.g. one quart)
  - For better results use warm water (60-85°F)
- 2) Add one quart (32 oz.) of CIRKIL® CX
- 3) Agitate to mix well
- 4) Fill to one gallon with water
- 5) Close tank and agitate well before use

Use all diluted mixture on day of dilution or within 12 hours.

#### Application Rates and Treatment Schedule:

- Spray until treated surfaces are moist. Use approximately one (1) gallon diluted CIRKIL® CX per 200-800 sq.ft. depending on surface treated.
- Allow 4 hours for product to completely dry before reentry.
- For bed bug adults, nymphs and eggs, re-apply every 1 to 2 weeks or as needed.
- For bed bug eggs only, re-apply every 2 to 3 weeks or as needed.

#### STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by pesticide storage or disposal. Open dumping is prohibited. Do not reuse container.

**PESTICIDE STORAGE:** Do not store this product above 104°F or below 20°F for extended periods of time. Keep containers tightly closed when not in use. Keep containers tightly closed and in original containers when not in use. Do not store exposed to ultraviolet light (sunlight) or moisture.

**PESTICIDAL DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

### [Back Label - Page 3 (inside, right)]

#### CONDITIONS OF SALE AND WARRANTY

##### IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

To the extent consistent with applicable law, TERRAMERA, INC., TERRAMERA, LLC and any current or future parents companies, subsidiaries or affiliates (collectively referred to herein as "Terramera") and the Seller offer this product, and the Buyer and User accept it, subject to the following **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Terramera. By using or buying this product, the User or Buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The **Directions For Use** of this product reflects the opinion of experts based on experimental use and tests. The directions are believed to be adequate and must be followed carefully. Attempts have been made to eliminate or draw attention to the risks associated with the use of this product; however, it is impossible to eliminate all risks inherently associated with the use, handling and transport of this product. Damage to products, materials, treated surfaces or fabrics, ineffectiveness or other unintended consequences may result because of factors such as environmental conditions, the presence of other materials, the manner of use or application, the use of the product in a manner inconsistent with its labeling, or other unknown reasons, all of which are beyond the control of Terramera. All such risks shall be assumed by the User or Buyer and User and Buyer agree to hold Terramera and Seller harmless for any claims relating to such factors. Terramera does not agree to be an insurer of these risks beyond what is expressly warranted by this label.

Terramera warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use** when used in accordance with the directions under normal conditions of use, subject to the inherent risks referred to above.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Terramera or the Seller make no other warranties, guarantees or representations of any kind, either express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Terramera or the Seller is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the User or Buyer and the exclusive liability of Terramera for any and all losses, injuries or damages resulting from the use handling or transport of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid for the product, or at Terramera's or the Seller's election, the replacement of product. To the extent consistent with applicable law, Terramera and the Seller disclaim any liability for special, consequential, incidental, or indirect damages resulting from the use, transport, or handling of this product.

CX-120530GL02

# SAFETY DATA SHEET

## I. CHEMICAL PRODUCT INFORMATION

**Product Name** CIRKIL CX  
**Recommended Use** Pesticide (EPA Reg. No. 88760-2)  
**Manufacturer** Terramera, Inc.  
333 Seymour Street, Suite 1100  
Vancouver, BC, Canada V6B 5A6  
+1-800-597-9509 (9:00am – 5:00pm PST)  
  
**Email** [msdsinfo@terramera.com](mailto:msdsinfo@terramera.com)  
**Emergency** INFOTRAC +1-352-323-3500  
Contract # 103390

## II. HAZARD(S) IDENTIFICATION

**Health hazards** Serious eye damage/eye irritation Category 2B

**Environmental hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**OSHA defined hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**Signal word** Warning

**Hazard statement** Causes eye irritation.

**Precautionary statement**

|                   |                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b> | Wash hands thoroughly after handling.                                                                                                                                                      |
| <b>Response</b>   | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| <b>Storage</b>    | Store in a well-ventilated place. Keep container tightly closed. Keep cool.                                                                                                                |
| <b>Disposal</b>   | Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                        |

**Supplemental information** None.

## III. COMPOSITION /INFORMATION ON INGREDIENTS

### Mixtures

| Chemical Name         | CAS Number | %    |
|-----------------------|------------|------|
| Cold Pressed Neem Oil | 8002-65-1  | 22.0 |
| Other Ingredients     |            | 78.0 |

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29 CFR 1910.1200.

#### IV. FIRST AID MEASURES

- Inhalation** If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Skin Contact** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.
- Ingestion** Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical advice/attention if you feel unwell.

**Most important symptoms/effects, acute and delayed**

May cause mild eye irritation. Product may present an aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information**

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### V. FIRE FIGHTING MEASURES:

**Suitable extinguishing media** Alcohol resistant foam. Water fog. Carbon dioxide (CO<sub>2</sub>). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher.

**Specific hazards arising from the chemical**

Avoid inhalation of gas.

**Special protective equipment and precautions for firefighters**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire fighting equipment/instructions**

Ventilate the contaminated area. Evacuate area. Firefighters should wear full protective gear. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Do not scatter spilled material with high pressure waterstreams. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**Hazardous combustion Products** Carbon oxides. Other irritating fumes and smokes

#### VI. ACCIDENTAL RELEASE MEASURES:

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Stop the flow of material, if this is without risk. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Contaminated absorbent material may pose the same hazards as the spilled product. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. Clean surface thoroughly to

remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

### VII. HANDLING AND STORAGE:

#### Precautions for safe handling

Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

#### Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep out of the reach of children. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure limits

No exposure limits noted for ingredient(s).

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

##### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

##### Other

Wear suitable protective clothing.

##### Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.

##### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

##### Physical state

Liquid.

##### Form

Liquid.

##### Color

Light yellow.

#### Odor

Mild fragrant.

#### Odor threshold

Not available.

#### pH

5.31

#### Melting point/freezing point

Not available

#### Initial boiling point and boiling range

Not available

#### Flash point

198 °F Closed Cup

#### Evaporation rate

Not available.

#### Flammability (solid, gas)

Not available.

#### Upper/lower flammability or explosive limits

##### Explosive limit - lower (%)

Not available.

##### Explosive limit - upper (%)

Not available.

#### Vapor pressure

Not available.

#### Vapor density

Not available.

#### Relative density

Not available.

|                                                |                |
|------------------------------------------------|----------------|
| <b>Solubility(ies)</b>                         |                |
| <b>Solubility (water)</b>                      | Not available. |
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |
| <b>Auto-ignition temperature</b>               | Not available. |
| <b>Decomposition temperature</b>               | Not available. |
| <b>Viscosity</b>                               | Not available. |
| <b>Other information</b>                       |                |
| <b>Kinematic viscosity</b>                     | 4.62 cSt       |
| <b>Specific gravity</b>                        | 0.997          |

## X. STABILITY AND REACTIVITY

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                                                      |
| <b>Conditions to avoid</b>                | Contact with incompatible materials. Do not use in areas without adequate ventilation.        |
| <b>Incompatible materials</b>             | Acids. Bases. Strong oxidizing agents.                                                        |
| <b>Hazardous decomposition products</b>   | Refer to hazardous combustion products in Section 5.                                          |

## XI. TOXICOLOGY INFORMATION

### Information on likely routes of exposure

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation to the respiratory system.                                                                                 |
| <b>Skin contact</b> | Based on test data on the finished product, the product is considered to not be a skin irritant.                                |
| <b>Eye contact</b>  | May cause mild eye irritation. Based on test data on the finished product, the product is considered to be a mild eye irritant. |
| <b>Ingestion</b>    | May cause irritation of the gastrointestinal tract. Product may present an aspiration hazard, if ingested in large amounts.     |

### Most important symptoms/effects, acute and delayed

May cause mild eye irritation. Product may present an aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

### Information on toxicological effects

|                       |                                                                                                                                                                                                                      |  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Acute toxicity</b> | This product is not classified as an acute toxicity hazard. The below product data is the calculated ATE values for this mixture. Individual ingredient component data appears below the product mixture ATE values. |  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| <b>Product</b>          | <b>Species</b> | <b>Test Results</b>   |
|-------------------------|----------------|-----------------------|
| CIRKIL CX (CAS Mixture) |                |                       |
| <b>Acute</b>            |                |                       |
| <i>Dermal</i>           |                |                       |
| LD50                    | Rat            | > 5050 mg/kg          |
| <i>Inhalation</i>       |                |                       |
| LC50                    | Rat            | > 21.07 mg/l, 4 hours |
| <i>Oral</i>             |                |                       |
| LD50                    | Rat            | 3129 mg/kg            |

| <b>Components</b>                     | <b>Species</b> | <b>Test Results</b> |
|---------------------------------------|----------------|---------------------|
| Cold Pressed Neem Oil (CAS 8002-65-1) |                |                     |

## Acute

|                           |        |                     |
|---------------------------|--------|---------------------|
| <i>Dermal</i><br>LD50     | Rabbit | > 2000 mg/kg        |
| <i>Inhalation</i><br>LC50 | Rat    | > 6.2 mg/l, 4 hours |
| <i>Oral</i><br>LD50       | Rat    | > 5000 mg/kg        |

\* Estimates for product may be based on additional component data not shown.

|                                                                        |                                                                                                                                                                        |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>                                       | Based on test data on the finished product, the product is considered to not be a skin irritant.                                                                       |
| <b>Serious eye damage/eye irritation</b>                               | May cause mild eye irritation.                                                                                                                                         |
| <b>Respiratory or skin sensitization</b>                               |                                                                                                                                                                        |
| <b>Respiratory sensitization</b>                                       | This product is not expected to cause respiratory sensitization.                                                                                                       |
| <b>Skin sensitizer</b>                                                 | This product is not expected to cause skin sensitization. Based on testing of the finished product, this product is not considered to be a skin sensitizer.            |
| <b>Germ cell mutagenicity</b>                                          | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                                       |
| <b>Carcinogenicity</b>                                                 | No components present at greater than 0.1% are considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                                             |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>  |                                                                                                                                                                        |
| Not listed.                                                            |                                                                                                                                                                        |
| <b>Reproductive toxicity</b>                                           | This product is not expected to cause reproductive or developmental effects.                                                                                           |
| <b>Specific target organ toxicity -single exposure</b>                 |                                                                                                                                                                        |
| Not classified.                                                        |                                                                                                                                                                        |
| <b>Specific target organ toxicity -repeated exposure</b>               |                                                                                                                                                                        |
| Not classified as a specific target organ toxicity -repeated exposure. |                                                                                                                                                                        |
| <b>Aspiration toxicity</b>                                             | Not expected to be hazardous by OSHA criteria. However, if the product is ingested in large amounts, the product may present an aspiration hazard.                     |
| <b>Chronic effects</b>                                                 | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Prolonged or repeated overexposure may cause liver and kidney effects. |

## XII. ECOLOGICAL INFORMATION

|                                      |                                                                                                                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.                                                                                                                                         |
| <b>Bioaccumulative potential</b>     | No data available.                                                                                                                                                                                 |
| <b>Mobility in soil</b>              | No data available.                                                                                                                                                                                 |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## XIII DISPOSAL CONSIDERATIONS

|                              |                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|



|                                              |                                                                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Local disposal regulations</b>            | with local/regional/national/international regulations.                                                                                                                                                          |
| <b>Hazardous waste code</b>                  | Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                            |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.       |

#### XIV TRANSPORT INFORMATION

Not classified under DOT regulations.

#### XV. REGULATORY INFORMATION

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

The labeling requirements under federal pesticide law differ from the classification criteria and hazard information required for material safety data sheets (MSDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The proposed pesticide label being reviewed by the Environmental Protection Agency includes other important information, including directions for use.

CAUTION  
Harmful if swallowed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

|                                               |                        |
|-----------------------------------------------|------------------------|
| <b>Hazard categories</b>                      | Immediate Hazard - Yes |
| Delayed Hazard - No                           |                        |
| Fire Hazard - Yes                             |                        |
| Pressure Hazard - No                          |                        |
| Reactivity Hazard - No                        |                        |
| <b>SARA 302 Extremely hazardous substance</b> | Not listed.            |
| <b>SARA 311/312 Hazardous chemical</b>        | No                     |
| <b>SARA 313 (TRI reporting)</b>               | Not regulated.         |

**Other federal regulations**  
**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act  
(SDWA)**

Not regulated.

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| <b>Country(s) or region<br/>(yes/no)*</b> | <b>Inventory name</b>                                                  | <b>On inventory</b> |
|-------------------------------------------|------------------------------------------------------------------------|---------------------|
| Australia                                 | Australian Inventory of Chemical Substances (AICS)                     | No                  |
| Canada                                    | Domestic Substances List (DSL)                                         | Yes                 |
| Canada                                    | Non-Domestic Substances List (NDSL)                                    | No                  |
| China                                     | Inventory of Existing Chemical Substances in China (IECSC)             | No                  |
| Europe                                    | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                  |
| Europe                                    | European List of Notified Chemical Substances (ELINCS)                 | No                  |
| Japan                                     | Inventory of Existing and New Chemical Substances (ENCS)               | No                  |
| Korea                                     | Existing Chemicals List (ECL)                                          | No                  |
| New Zealand                               | New Zealand Inventory                                                  | Yes                 |
| Philippines<br>(PICCS)                    | Philippine Inventory of Chemicals and Chemical Substances              | No                  |
| United States<br>& Puerto Rico            | Toxic Substances Control Act (TSCA) Inventory                          | No                  |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

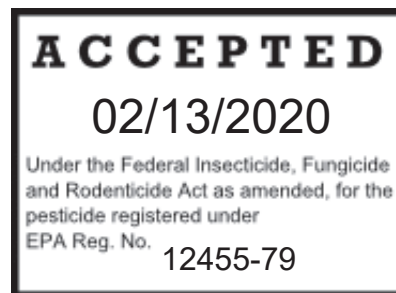
**XVI. OTHER INFORMATION**

**Date of issue:** OCT-16-2018

**Version #** 01-1

**Declaration:** The information in this SDS relates to this specific material: CIRKIL CX. It may not be valid for this material if used in combination with any other material or in any process.

The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Terramera, Inc. expressly disclaims all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their specific use and application. The data in this SDS does not apply to use with any other product or in any other process. This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of Terramera, Inc.



# Contrac® All-Weather Blox

[*Alternate Brand Name*] **Ratrac® Blox**

***KILLS RATS, MICE, AND MEADOW VOLES\****

***KILLS WARFARIN RESISTANT NORWAY RATS***

Norway rats, roof rats, and house mice may consume a lethal dose in one night's feeding with the first dead rodents appearing four or five days after feeding begins.

**ACTIVE INGREDIENT**

|                                 |       |                |
|---------------------------------|-------|----------------|
| Bromadiolone (CAS # 28772-56-7) | ..... | 0.005%         |
| OTHER INGREDIENTS†              | ..... | 99.995%        |
| <b>TOTAL</b>                    | ..... | <b>100.00%</b> |

†Contains Denatonium Benzoate

EPA REG. NO. 12455-79

EPA EST. NO. 12455-WI-1<sup>k</sup>

EPA EST. NO. 12455-WI-2<sup>p</sup>

EPA EST. NO. 12455-WI-3<sup>w</sup>

[superscript is first letter of the lot number]

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**NET CONTENTS:** 10 g Block / 726 – 2268 Blocks

***Alternate Sizes:*** 28 g Block / 259 – 816 Blocks

**NET WEIGHT:** 16 to 50 lbs. (7.26 – 22.68 kg)

**Manufactured By:**



**Bell Laboratories, Inc.**  
3699 Kinsman Blvd.  
Madison, WI 53704

**Batch Code:**

[*For Pest Control Operator Label: Add the following for packages containing less than 16 lbs. of bait:*]

**IT IS ILLEGAL TO SELL THIS PRODUCT IN PACKAGES HOLDING LESS THAN  
16 POUNDS OF BAIT**

See back [bottom] [and] [side] panel[s] for  
First Aid, additional Precautionary Statements, and Directions for Use.

\*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

| <b>FIRST AID</b><br><b>HAVE LABEL WHEN OBTAINING TREATMENT ADVICE</b>                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If Swallowed:</b>                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Call a poison control center, doctor, or <b>1-877-854-2494</b> immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on Skin or Clothing:</b>                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin with plenty of cool water for 15-20 minutes.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>                                                                                                                                             |
| <b>If in Eyes:</b>                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>                                                                    |
| <b>NOTE TO PHYSICIAN</b><br>If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K <sub>1</sub> intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>TREATMENT FOR PET POISONING</b><br>If an animal eats this bait, call a veterinarian or <b>1-877-854-2494</b> at once.                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>NOTE TO VETERINARIAN</b><br>For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K <sub>1</sub> . If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed. |                                                                                                                                                                                                                                                                                                                                                                                        |

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing.

All handlers (including applicators) must wear long pants, shoes, socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

### User Safety Requirements

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THIS LABEL:** Read this entire label and follow all use directions and use precautions. Use only for sites, pests, and application methods described on this label.

### IMPORTANT:

Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hooved livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

**Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used wherever children, pets, non-target mammals, or birds may have access to the bait placement location.**

### USE RESTRICTIONS:

This product may only be used to control the following rodent pests in and around man-made structures: House mouse (*Mus musculus*), Norway rat (*Rattus norvegicus*), Roof rat (*Rattus rattus*), Cotton mouse (*Peromyscus gossypinus*), Cotton rat\* (*Sigmodon hispidus*), Deer mouse (*Peromyscus maniculatus*), Eastern harvest mouse\* (*Reithrodontomys humuli*), Golden mouse\* (*Ochrotomys nuttalli*), Polynesian rat\* (*Rattus exulans*), Meadow vole\* (*Microtus pennsylvanicus*), White-footed mouse (*Peromyscus leucopus*), White-throated woodrat\* (*Neotoma albigula*), Southern plains woodrat\* (*Neotoma micropus*), and Mexican woodrat\* (*Neotoma mexicana*). This product must be used in and within 100 feet of man-made structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft), docks and port or terminal buildings and related structures around and associated with these sites. Fence and perimeter baiting, beyond 100 feet from a structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

Burrow baiting with Contra<sup>®</sup> All-Weather Blox [This Product] is prohibited.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

Do not place bait near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations. Do not broadcast bait. Do not use this product in sewers.

Do not sell this product in individual containers holding less than 16 pounds of bait.

#### **SELECTION OF TREATMENT AREAS:**

Determine areas where rats, mice or meadow voles\* will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where rodents or their signs have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

#### **APPLICATION DIRECTIONS:**

***(Only one of the following “Application Directions” will appear on a given label)***

##### ***Application Directions for 0.35 ounce (10 g) size blocks:***

###### **Rats:**

Apply 9 to 43 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

**OR**

##### ***Application Directions for 1 ounce (28 g) size blocks:***

###### **Rats:**

Apply 3 to 16 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

#### **Follow-up:**

Replace contaminated or spoiled bait immediately. Using waterproof gloves, collect and properly dispose of all visible dead animals and leftover bait. To discourage reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. For a continuous infestation, set up permanent bait stations and replenish bait as needed.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration.

**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.



# Contrac® All-Weather Blox

[*Alternate Brand Name*] Ratrac® Blox

## ***KILLS RATS, MICE, AND MEADOW VOLES\****

### ***KILLS WARFARIN RESISTANT NORWAY RATS***

Norway rats, roof rats, and house mice may consume a lethal dose in one night's feeding with the first dead rodents appearing four or five days after feeding begins.

#### ACTIVE INGREDIENT

|                                 |       |                |
|---------------------------------|-------|----------------|
| Bromadiolone (CAS # 28772-56-7) | ..... | 0.005%         |
| OTHER INGREDIENTS†              | ..... | 99.995%        |
| <b>TOTAL</b>                    | ..... | <b>100.00%</b> |

†Contains Denatonium Benzoate

EPA REG. NO. 12455-79

EPA EST. NO. 12455-WI-1<sup>k</sup>

EPA EST. NO. 12455-WI-2<sup>p</sup>

EPA EST. NO. 12455-WI-3<sup>w</sup>

[superscript is first letter of the lot number]

## **KEEP OUT OF REACH OF CHILDREN CAUTION**

**NET CONTENTS:** 10 g Block / 45 – 453 Blocks

***Alternate Sizes:*** 28 g Block / 16 – 640 Blocks

**NET WEIGHT:** 1 to 10 lbs. (0.453– 4.53 kg)

#### **Manufactured By:**



**Bell Laboratories, Inc.**

3699 Kinsman Blvd.

Madison, WI 53704

**Batch Code:**

#### **INDIVIDUAL SALE IS PROHIBITED BY LAW**

See back [bottom] [and] [side] panel[s] for  
First Aid, additional Precautionary Statements, and Directions for Use.

\*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

| <b>FIRST AID</b>                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HAVE LABEL WHEN OBTAINING TREATMENT ADVICE</b>                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>If Swallowed:</b>                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Call a poison control center, doctor, or <b>1-877-854-2494</b> immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on Skin or Clothing:</b>                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin with plenty of cool water for 15-20 minutes.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>                                                                                                                                             |
| <b>If in Eyes:</b>                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>                                                                    |
| <p align="center"><b>NOTE TO PHYSICIAN</b></p> <p>If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K<sub>1</sub> intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.</p>                     |                                                                                                                                                                                                                                                                                                                                                                                        |
| <p align="center"><b>TREATMENT FOR PET POISONING</b></p> <p>If an animal eats this bait, call a veterinarian or <b>1-877-854-2494</b> at once.</p>                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                        |
| <p align="center"><b>NOTE TO VETERINARIAN</b></p> <p>For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K<sub>1</sub>. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.</p> |                                                                                                                                                                                                                                                                                                                                                                                        |

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing.

All handlers (including applicators) must wear long pants, shoes, socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

### **User Safety Requirements**

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THIS LABEL:** Read this entire label and follow all use directions and use precautions. Use only for sites, pests, and application methods described on this label.

**IMPORTANT:** Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hooved livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

**Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used wherever children, pets, non-target mammals, or birds may have access to the bait placement location.**

## USE RESTRICTIONS:

This product may only be used to control the following rodent pests in and around man-made structures: House mouse (*Mus musculus*), Norway rat (*Rattus norvegicus*), Roof rat (*Rattus rattus*), Cotton mouse (*Peromyscus gossypinus*), Cotton rat\* (*Sigmodon hispidus*), Deer mouse (*Peromyscus maniculatus*), Eastern harvest mouse\* (*Reithrodontomys humuli*), Golden mouse\* (*Ochrotomys nuttalli*), Polynesian rat\* (*Rattus exulans*), Meadow vole\* (*Microtus pennsylvanicus*), White-footed mouse (*Peromyscus leucopus*), White-throated woodrat\* (*Neotoma albigula*), Southern plains woodrat\* (*Neotoma micropus*), and Mexican woodrat\* (*Neotoma mexicana*). This product must be used in and within 100 feet of man-made structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, trash receptacles, agricultural and public buildings, transport vehicles (ships, trains, aircraft), docks and port or terminal buildings and related structures around and associated with these sites. Fence and perimeter baiting, beyond 100 feet from a structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

Burrow baiting with Contra<sup>®</sup> All-Weather Blox [This Product] is prohibited.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

Do not place bait near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations. Do not broadcast bait. Do not use this product in sewers.

Do not sell this product in individual containers holding less than 16 pounds of bait.

#### **SELECTION OF TREATMENT AREAS:**

Determine areas where rats, mice or meadow voles\* will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where rodents or their signs have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

#### **APPLICATION DIRECTIONS:**

***(Only one of the following “Application Directions” will appear on a given label)***

##### ***Application Directions for 0.35 ounce (10 g) size blocks:***

###### **Rats:**

Apply 9 to 43 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

**OR**

##### ***Application Directions for 1 ounce (28 g) size blocks:***

###### **Rats:**

Apply 3 to 16 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

#### **Follow-up:**

Replace contaminated or spoiled bait immediately. Using waterproof gloves, collect and properly dispose of all visible dead animals and leftover bait. To discourage reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. For a continuous infestation, set up permanent bait stations and replenish bait as needed.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration.

**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

# Contrac® All-Weather Blox

[*Alternate Brand Name*] **Ratrac® Blox**

This product may only be used inside and within 100 feet of agricultural buildings and man-made agricultural structures.

***KILLS RATS, MICE, AND MEADOW VOLES\****

***KILLS WARFARIN RESISTANT NORWAY RATS***

Norway rats, roof rats, and house mice may consume a lethal dose in one night's feeding with the first dead rodents appearing four or five days after feeding begins.

**ACTIVE INGREDIENT**

|                                 |       |                |
|---------------------------------|-------|----------------|
| Bromadiolone (CAS # 28772-56-7) | ..... | 0.005%         |
| OTHER INGREDIENTS†              | ..... | <u>99.995%</u> |
| <b>TOTAL</b>                    | ..... | <b>100.00%</b> |

†Contains Denatonium Benzoate

EPA REG. NO. 12455-79

EPA EST. NO. 12455-WI-1<sup>k</sup>

EPA EST. NO. 12455-WI-2<sup>p</sup>

EPA EST. NO. 12455-WI-3<sup>w</sup>

[superscript is first letter of the lot number]

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**NET CONTENTS:** 10 g Block / 363 – 2268 Blocks

***Alternate Sizes:*** 28 g Block / 129 – 810 Blocks

**NET WEIGHT:** 8 to 50 lbs. (3.63 – 22.68 kg)

Manufactured By:



**Bell Laboratories, Inc.**  
3699 Kinsman Blvd.  
Madison, WI 53704

**Batch Code:**

[*For Agricultural Use Label: Add the following for packages containing less than 8 lbs. of bait:*]

**IT IS ILLEGAL TO SELL THIS PRODUCT IN PACKAGES  
HOLDING LESS THAN 8 POUNDS OF BAIT**

See back [bottom] [and] [side] panel[s] for  
First Aid, additional Precautionary Statements, and Directions for Use.

\*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

| <b>FIRST AID</b>                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HAVE LABEL WHEN OBTAINING TREATMENT ADVICE</b>                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>If Swallowed:</b>                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>• Call a poison control center, doctor, or <b>1-877-854-2494</b> immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
| <b>If on Skin or Clothing:</b>                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin with plenty of cool water for 15-20 minutes.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li></ul>                                                                                                                                            |
| <b>If in Eyes:</b>                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li></ul>                                                                   |
| <b>NOTE TO PHYSICIAN</b><br>If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K <sub>1</sub> intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.                      |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TREATMENT FOR PET POISONING</b><br>If an animal eats this bait, call a veterinarian or 1-877-854-2494 at once.                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>NOTE TO VETERINARIAN</b><br>For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K <sub>1</sub> . If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed. |                                                                                                                                                                                                                                                                                                                                                                                   |

### **PRECAUTIONARY STATEMENTS**

#### **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing.

All handlers (including applicators) must wear long pants, shoes, socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

#### **User Safety Requirements**

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.



## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THIS LABEL:** Read this entire label and follow all use directions and use precautions. Use only for sites, pests, and application methods described on this label.

**IMPORTANT:** Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hooved livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

**Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used wherever children, pets, non-target mammals, or birds may have access to the bait placement location.**

## USE RESTRICTIONS:

This product may only be used to control the following rodent pests in and around agricultural buildings and man-made agricultural structures: House mouse (*Mus musculus*), Norway rat (*Rattus norvegicus*), Roof rat (*Rattus rattus*), Cotton mouse (*Peromyscus gossypinus*), Cotton rat\* (*Sigmodon hispidus*), Deer mouse (*Peromyscus maniculatus*), Eastern harvest mouse\* (*Reithrodontomys humuli*), Golden mouse\* (*Ochrotomys nuttalli*), Polynesian rat\* (*Rattus exulans*), Meadow vole\* (*Microtus pennsylvanicus*), White-footed mouse (*Peromyscus leucopus*), White-throated woodrat\* (*Neotoma albigula*), Southern plains woodrat\* (*Neotoma micropus*), and Mexican woodrat\* (*Neotoma mexicana*). This product must be used in and within 100 feet of agricultural buildings and man-made agricultural structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Fence and perimeter baiting, beyond 100 feet from an agricultural structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

Burrow baiting with Contrac® All-Weather Blox [This Product] is prohibited.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.



Do not use in homes or human residences. Do not place bait near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. Do not broadcast bait. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations.

Do not sell this product in individual containers holding less than 8 pounds of bait.

#### **SELECTION OF TREATMENT AREAS:**

Determine areas where rats, mice or meadow voles\* will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where rodents or their signs have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

#### **APPLICATION DIRECTIONS:**

***(Only one of the following “Application Directions” will appear on a given label)***

##### ***Application Directions for 0.35 ounce (10 g) size blocks:***

###### **Rats:**

Apply 9 to 43 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

***OR***

##### ***Application Directions for 1 ounce (28 g) size blocks:***

###### **Rats:**

Apply 3 to 16 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

#### **Follow-up:**

Replace contaminated or spoiled bait immediately. Using waterproof gloves, collect and properly dispose of all visible dead animals and leftover bait. To discourage reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. For a continuous infestation, set up permanent bait stations and replenish bait as needed.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration.

**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

# Contrac® All-Weather Blox

[*Alternate Brand Name*] Ratrac® Blox

## ***KILLS RATS, MICE, AND MEADOW VOLES\****

### ***KILLS WARFARIN RESISTANT NORWAY RATS***

Norway rats, roof rats, and house mice may consume a lethal dose in one night's feeding with the first dead rodents appearing four or five days after feeding begins.

#### ACTIVE INGREDIENT

|                                 |       |                |
|---------------------------------|-------|----------------|
| Bromadiolone (CAS # 28772-56-7) | ..... | 0.005%         |
| OTHER INGREDIENTS†              | ..... | 99.995%        |
| <b>TOTAL</b>                    | ..... | <b>100.00%</b> |

†Contains Denatonium Benzoate

EPA REG. NO. 12455-79

EPA EST. NO. 12455-WI-1<sup>k</sup>

EPA EST. NO. 12455-WI-2<sup>p</sup>

EPA EST. NO. 12455-WI-3<sup>w</sup>

[superscript is first letter of the lot number]

## **KEEP OUT OF REACH OF CHILDREN CAUTION**

**NET CONTENTS:** 10 g Block / 45 – 181 Blocks

***Alternate Sizes:*** 28 g Block / 16 – 64 Blocks

**NET WEIGHT:** 1 to 4 lbs. (0.453– 1.81kg)

#### **Manufactured By:**



**Bell Laboratories, Inc.**  
3699 Kinsman Blvd.  
Madison, WI 53704

**Batch Code:**

#### **INDIVIDUAL SALE IS PROHIBITED BY LAW**

See back [bottom] [and] [side] panel[s] for  
First Aid, additional Precautionary Statements, and Directions for Use.

\*Not permitted for use against the following species in California: Cotton rat, Eastern harvest mouse, Golden mouse, Polynesian rat, Meadow vole, White-throated woodrat, Southern plains woodrat, and Mexican woodrat

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

| <b>FIRST AID</b><br><b>HAVE LABEL WHEN OBTAINING TREATMENT ADVICE</b>                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If Swallowed:</b>                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>• Call a poison control center, doctor, or <b>1-877-854-2494</b> immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
| <b>If on Skin or Clothing:</b>                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin with plenty of cool water for 15-20 minutes.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li></ul>                                                                                                                                            |
| <b>If in Eyes:</b>                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li></ul>                                                                   |
| <b>NOTE TO PHYSICIAN</b><br>If swallowed or absorbed through the skin, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K <sub>1</sub> intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.                      |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TREATMENT FOR PET POISONING</b><br>If an animal eats this bait, call a veterinarian or <b>1-877-854-2494</b> at once.                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>NOTE TO VETERINARIAN</b><br>For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K <sub>1</sub> . If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed. |                                                                                                                                                                                                                                                                                                                                                                                   |

### **PRECAUTIONARY STATEMENTS**

#### **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing.

All handlers (including applicators) must wear long pants, shoes, socks, and waterproof gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

#### **User Safety Requirements**

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THIS LABEL:** Read this entire label and follow all use directions and use precautions. Use only for sites, pests, and application methods described on this label.

### IMPORTANT:

Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hooved livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

**Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used wherever children, pets, non-target mammals, or birds may have access to the bait placement location.**

### USE RESTRICTIONS:

This product may only be used to control the following rodent pests in and around agricultural buildings and man-made agricultural structures: House mouse (*Mus musculus*), Norway rat (*Rattus norvegicus*), Roof rat (*Rattus rattus*), Cotton mouse (*Peromyscus gossypinus*), Cotton rat\* (*Sigmodon hispidus*), Deer mouse (*Peromyscus maniculatus*), Eastern harvest mouse\* (*Reithrodontomys humuli*), Golden mouse\* (*Ochrotomys nuttalli*), Polynesian rat\* (*Rattus exulans*), Meadow vole\* (*Microtus pennsylvanicus*), White-footed mouse (*Peromyscus leucopus*), White-throated woodrat\* (*Neotoma albigula*), Southern plains woodrat\* (*Neotoma micropus*), and Mexican woodrat\* (*Neotoma mexicana*). This product must be used in and within 100 feet of agricultural buildings and man-made agricultural structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Fence and perimeter baiting, beyond 100 feet from an agricultural structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

Burrow baiting with Contrac® All-Weather Blox [This Product] is prohibited.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

Do not use in homes or human residences. Do not place bait near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. Do not broadcast bait. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations.

Do not sell this product in individual containers holding less than 8 pounds of bait.

#### **SELECTION OF TREATMENT AREAS:**

Determine areas where rats, mice or meadow voles\* will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where rodents or their signs have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

#### **APPLICATION DIRECTIONS:**

***(Only one of the following “Application Directions” will appear on a given label)***

##### ***Application Directions for 0.35 ounce (10 g) size blocks:***

###### **Rats:**

Apply 9 to 43 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

**OR**

##### ***Application Directions for 1 ounce (28 g) size blocks:***

###### **Rats:**

Apply 3 to 16 blocks per placement, usually spaced 15- to 30- feet apart. Maintain a constant supply of fresh bait for 10 days or until signs of rat activity cease.

###### **Mice and Meadow Voles\*:**

Apply 1 block per placement, usually spaced 8- to 12-feet apart. Up to 2 blocks may be needed at points of very high activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse or meadow vole\* activity cease.

#### **Follow-up:**

Replace contaminated or spoiled bait immediately. Using waterproof gloves, collect and properly dispose of all visible dead animals and leftover bait. To discourage reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. For a continuous infestation, set up permanent bait stations and replenish bait as needed.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration.

**WARRANTY:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.

**OPTIONAL MARKETING STATEMENTS:**

All-Weather

All-Weather [Blocks][Block Bait]

All-Weather Formula [Formulation]

Bait easily Secured Inside Station

Bromadiolone

Can be only used indoors or out (within 100 ft of Homes and Buildings).

City Pack

[For Use Only on Marketplace Labeling for PCO Labeled Products]

Contains [With] Bromadiolone

Designed to be Used Indoors or [&][and] Out

For use in and around (within 100 ft of) Homes and Buildings

For Indoor and [&] or Outdoor Use

For Use Indoors and [&] or Outdoors

For Use In and [&] or Around Homes and Buildings

For Use Only In and [&] Homes and Buildings

Indoor and Outdoor Use

Kills Listed Rodent Species

Kills Meadow Voles\*[Mice][Rats]

Kills Rats, Mice and Meadow Voles\*

Kills Warfarin Resistant Norway Rats

Made in USA

Moisture Resistant

Mold and [&] Moisture Resistant

Mold Resistant

Multi-edge shape gives rodents [Meadow Voles\*][Mice][Rats] gnawing edges

Rat, Mouse and Meadow Vole\* Killer

Ready-To-Use

Ready-To-Use 0.35 oz. (10 g) Block [Block Bait]

Ready-To-Use 1 oz. (28 g) Block [Block Bait]

Results Guaranteed<sup>▲</sup>

<sup>▲</sup>*BELL LABORATORIES, INC. GUARANTEE:*

*If for any reason you, the consumer, are not satisfied with this product, mail us your original proof of purchase to obtain a full refund of your purchase price."*

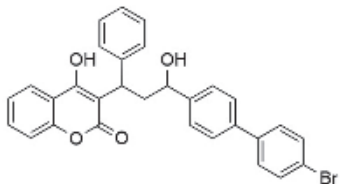
***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.



**OPTIONAL GRAPHICS:**



[Image of Bromadiolone Structure]



*Picture not representative of Bait Placement.*  
*Bait stations are mandatory for outdoor, above ground use.*



*Picture not representative of Bait Placement.  
Bait stations are mandatory for outdoor, above ground use.*



[For Use Only on Marketplace Labeling for PCO Labeled Products]

***Bold, italicized text is information for the reader and is not part of the label.***

[Bracketed information is optional text.]

Text separated by / denotes and/or options.



# Contrac All-Weather Blox

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 1/10/2024 Revision date: 1/10/2024 Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
EPA Registration Number : 12455-79  
Trade name : Contrac All-Weather Blox  
Product code : CB4047, CB4051, CB1616

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Rodenticides  
Anti-coagulant  
Ready to use product

#### 1.3. Supplier

Bell Laboratories, Inc.  
3699 Kinsman Blvd.  
Madison, WI, 53704  
USA  
T 608 241 0202  
[sds@belllabs.com](mailto:sds@belllabs.com) - [www.belllabs.com](http://www.belllabs.com)

#### 1.4. Emergency telephone number

| Country | Organisation/Company     | Address | Emergency number             | Comment                                                          |
|---------|--------------------------|---------|------------------------------|------------------------------------------------------------------|
| USA     | Medical or Vet Emergency |         | 877-854-2494<br>952-852-4636 | Spill or Transportation<br>Emergency: 800-424-9300<br>(CHEMTREC) |

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

No labelling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

# Contrac All-Weather Blox

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 3.2. Mixtures

| Name                                                                                                     | Product identifier  | %     | GHS US classification                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------|---------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one | CAS-No.: 28772-56-7 | 0.005 | Acute Tox. 1 (Oral), H300<br>Acute Tox. 1 (Dermal), H310<br>Acute Tox. 1 (Inhalation), H330<br>Acute Tox. 2 (Inhalation:dust,mist), H330<br>Repr. 1B, H360<br>STOT RE 1, H372<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

# Contrac All-Weather Blox

## Safety Data Sheet

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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Methods for cleaning up | : Mechanically recover the product.                             |
| Other information       | : Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Wear personal protective equipment. Place inaccessible to children, companion animals and non-target animals. Do not (use/apply) directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and animals. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                                                                                                                                                                        |

### 7.2. Conditions for safe storage, including any incompatibilities

|                           |                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions        | : Place inaccessible to children, companion animals and non-target animals. Keep only in the original container in a cool, well ventilated place away from : Other chemicals. |
| Heat and ignition sources | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                              |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Environmental exposure controls | : Avoid release to the environment. |
|---------------------------------|-------------------------------------|

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |                |
|----------------|----------------|
| Physical state | : Solid        |
| Appearance     | : Waxy. Block. |
| Colour         | : Blue         |

# Contrac All-Weather Blox

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                                                 |                      |
|-------------------------------------------------|----------------------|
| Odour                                           | : Fresh Sweet Grains |
| Odour threshold                                 | : No data available  |
| pH                                              | : No data available  |
| Melting point                                   | : No data available  |
| Freezing point                                  | : No data available  |
| Boiling point                                   | : No data available  |
| Flash point                                     | : No data available  |
| Relative evaporation rate (butylacetate=1)      | : No data available  |
| Flammability (solid, gas)                       | : Non flammable.     |
| Vapour pressure                                 | : No data available  |
| Relative vapour density at 20°C                 | : No data available  |
| Relative density                                | : No data available  |
| Solubility                                      | : No data available  |
| Partition coefficient n-octanol/water (Log Pow) | : No data available  |
| Auto-ignition temperature                       | : No data available  |
| Decomposition temperature                       | : No data available  |
| Viscosity, kinematic                            | : No data available  |
| Viscosity, dynamic                              | : No data available  |
| Explosive limits                                | : No data available  |
| Explosive properties                            | : No data available  |
| Oxidising properties                            | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7) |                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                                                                                                         | 1.31 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit                                                                                                    | 2.1 mg/kg (Rabbit, Dermal)                                                                                     |
| LC50 Inhalation - Rat                                                                                                 | < 0.2 mg/l (4 h, Rat, Inhalation)                                                                              |

|                                   |                  |
|-----------------------------------|------------------|
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |

| bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7) |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| STOT-repeated exposure                                                                                                | Causes damage to organs through prolonged or repeated exposure. |

|                      |                     |
|----------------------|---------------------|
| Aspiration hazard    | : Not classified    |
| Viscosity, kinematic | : No data available |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|

| bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7) |                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                                                                                                       | 2.86 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Experimental value)           |
| EC50 - Crustacea [1]                                                                                                  | 5.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value)          |
| EC50 72h - Algae [1]                                                                                                  | < 1 mg/l Source: NCIS                                                                                                        |
| EC50 96h - Algae [1]                                                                                                  | 0.17 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus, Static system, Experimental value, Biomass)      |
| ErC50 algae                                                                                                           | 1.14 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Experimental value) |

### 12.2. Persistence and degradability

| bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7) |                                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Persistence and degradability                                                                                         | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7) |                                                                   |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow)                                                                       | 4.3 (23 °C)                                                       |
| Bioaccumulative potential                                                                                             | Potential for bioaccumulation ( $4 \leq \text{Log Kow} \leq 5$ ). |

# Contrac All-Weather Blox

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### 12.4. Mobility in soil

**bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7)**

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Surface tension | 71.2 – 72.1 mN/m (20 - 21 °C, 1.47 - 17.4 mg/l) |
|-----------------|-------------------------------------------------|

|                |                                     |
|----------------|-------------------------------------|
| Ecology - soil | Low potential for mobility in soil. |
|----------------|-------------------------------------|

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

|               |                  |
|---------------|------------------|
| DOT NA No     | : Not regulated  |
| UN-No. (TDG)  | : Not applicable |
| UN-No. (IMDG) | : Not regulated  |
| UN-No. (IATA) | : Not regulated  |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (DOT)  | : Not regulated  |
| Proper Shipping Name (TDG)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not regulated  |
| Proper Shipping Name (IATA) | : Not regulated  |

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not regulated

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated

**IATA**  
Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (DOT)  | : Not regulated  |
| Packing group (TDG)  | : Not applicable |
| Packing group (IMDG) | : Not regulated  |
| Packing group (IATA) | : Not regulated  |

### 14.5. Environmental hazards

Other information : No supplementary information available.

# Contrac All-Weather Blox

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### 14.6. Special precautions for user

#### DOT

Not regulated

#### TDG

Not applicable

#### IMDG

Not regulated

#### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### bromadiolone (ISO); 3- [3-(4'-bromobiphenyl- 4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy- 2H-chromen-2-one (28772-56-7)

|                                                              |                                                                                                                                    |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 100 lb                                                                                                                             |
| SARA Section 302 Threshold Planning Quantity (TPQ)           | 10000 lb 100lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form |

### FIFRA Labelling

|                         |          |
|-------------------------|----------|
| EPA Registration Number | 12455-79 |
|-------------------------|----------|

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 1/10/2024



# Contrac All-Weather Blox

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Full text of H-statements |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| H300                      | Fatal if swallowed.                                             |
| H310                      | Fatal in contact with skin.                                     |
| H330                      | Fatal if inhaled.                                               |
| H360                      | May damage fertility or the unborn child.                       |
| H372                      | Causes damage to organs through prolonged or repeated exposure. |
| H401                      | Toxic to aquatic life                                           |
| H411                      | Toxic to aquatic life with long lasting effects.                |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

# SAFETY DATA SHEET



## DELTADUST® INSECTICIDE

Version 5.0 / USA  
102000004846

1/11  
Revision Date: 09/29/2021  
Print Date: 09/30/2021

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

|                      |                        |
|----------------------|------------------------|
| Trade name           | DELTADUST® INSECTICIDE |
| Product code (UVP)   | 05952247               |
| SDS Number           | 102000004846           |
| EPA Registration No. | 432-772                |

#### Relevant identified uses of the substance or mixture and uses advised against

|                                           |                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Use                                       | Insecticide                                                                                                                   |
| Restrictions on use                       | See product label for restrictions.                                                                                           |
| Information on supplier                   |                                                                                                                               |
| Supplier                                  | Bayer Environmental Science<br>A division of Bayer CropScience LP<br>5000 Centregreen Way, Suite 400<br>Cary, NC 27513<br>USA |
| Responsible Department                    | Email: SDSINFO.BCS-NA@bayer.com                                                                                               |
| Emergency telephone no.                   |                                                                                                                               |
| Emergency Telephone Number (24hr/ 7 days) | 1-800-334-7577                                                                                                                |
| Product Information Telephone Number      | 1-800-331-2867                                                                                                                |

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Combustible dust  
Specific target organ toxicity - repeated exposure: Category 1  
Carcinogenicity: Category 1B

#### Labelling in accordance with regulation HCS 29CFR §1910.1200



**Signal word:** Danger

**Hazard statements**

# SAFETY DATA SHEET



## DELTADUST® INSECTICIDE

Version 5.0 / USA  
102000004846

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Revision Date: 09/29/2021  
Print Date: 09/30/2021

Causes damage to organs through prolonged or repeated exposure.  
May cause cancer.  
May form combustible dust concentrations in air.  
Conduct Dust Hazard Assessment (DHA).

### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Do not breathe dust.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Get medical advice/ attention if you feel unwell.  
IF exposed or concerned: Get medical advice/ attention.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name        | CAS-No.    | Concentration % by weight |
|---------------------------------|------------|---------------------------|
| Deltamethrin                    | 52918-63-5 | 0.05                      |
| Crystalline quartz (respirable) | 14808-60-7 | 5.0                       |

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

|                       |                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.                                                                                      |
| <b>Inhalation</b>     | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.                |
| <b>Skin contact</b>   | Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.                                         |
| <b>Eye contact</b>    | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately. |

# SAFETY DATA SHEET



## DELTADUST® INSECTICIDE

Version 5.0 / USA  
102000004846

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Revision Date: 09/29/2021  
Print Date: 09/30/2021

**Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

### Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

### Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

---

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

**Suitable** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam, Water

**Unsuitable** High volume water jet

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire., Dust can form an explosive mixture in air.

### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media.

**Flash point** No data available

**Auto-ignition temperature** No data available

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Explosivity** No data available

---

# SAFETY DATA SHEET



## DELTADUST® INSECTICIDE

Version 5.0 / USA  
102000004846

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Revision Date: 09/29/2021  
Print Date: 09/30/2021

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

#### Methods and materials for containment and cleaning up

**Methods for cleaning up** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

#### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

| Components                                       | CAS-No.    | Control parameters                                   | Update | Basis |
|--------------------------------------------------|------------|------------------------------------------------------|--------|-------|
| Crystalline quartz (respirable)<br>(Respirable.) | 14808-60-7 | 2.4millions of particles per cubic foot of air (TWA) | 2000   | Z3    |

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|                                                           |            |                        |         |           |
|-----------------------------------------------------------|------------|------------------------|---------|-----------|
| Crystalline quartz (respirable)<br>(Respirable.)          | 14808-60-7 | 0.1 mg/m3 (TWA)        | 2000    | Z3        |
| Crystalline quartz (respirable)<br>(Respirable dust.)     | 14808-60-7 | 0.05 mg/m3 (TWA PEL)   | 10 2016 | US CA OEL |
| Crystalline quartz (respirable)<br>(Respirable dust.)     | 14808-60-7 | 0.05 mg/m3 (REL)       | 2016    | NIOSH     |
| Crystalline quartz (respirable)<br>(Respirable dust.)     | 14808-60-7 | 0.05 mg/m3 (PEL)       | 03 2016 | OSHA Z1   |
| Crystalline quartz (respirable)                           | 14808-60-7 | 0.05 mg/m3 (TWA)       | 03 2016 | OSHA      |
| Crystalline quartz (respirable)                           | 14808-60-7 | 0.025 mg/m3 (OSHA_ACT) | 03 2016 | OSHA      |
| Crystalline quartz (respirable)<br>(Respirable fraction.) | 14808-60-7 | 0.025 mg/m3 (TWA)      | 02 2020 | ACGIH     |
| Crystalline quartz (respirable)<br>(Respirable dust.)     | 14808-60-7 | 0.050 mg/m3 (TWA)      | 01 2019 | TN OEL    |
| Deltamethrin                                              | 52918-63-5 | 0.01 mg/m3 (TWA)       |         | OES BCS*  |

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

#### Hand protection

Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)

#### Eye protection

Safety glasses with side-shields

#### Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

#### General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If

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no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

|                                                    |                                                                 |
|----------------------------------------------------|-----------------------------------------------------------------|
| Form                                               | powder                                                          |
| Colour                                             | white                                                           |
| Odour                                              | weak, characteristic                                            |
| Odour Threshold                                    | No data available                                               |
| pH                                                 | No data available                                               |
| Melting point/range                                | No data available                                               |
| Boiling Point                                      | No data available                                               |
| Flash point                                        | No data available                                               |
| Flammability                                       | No data available                                               |
| Auto-ignition temperature                          | No data available                                               |
| Thermal decomposition                              | No data available                                               |
| Minimum ignition energy                            | > 10 mJ<br>MIE Cluster evaluated acc. to BTS report 2016/00141a |
| Self-accelarating decomposition temperature (SADT) | No data available                                               |
| Upper explosion limit                              | No data available                                               |
| Lower explosion limit                              | No data available                                               |
| Vapour pressure                                    | No data available                                               |
| Evaporation rate                                   | No data available                                               |
| Relative vapour density                            | No data available                                               |
| Relative density                                   | No data available                                               |
| Density                                            | No data available                                               |
| Bulk density                                       | ca. 55.5 lb/ft <sup>3</sup>                                     |
| Water solubility                                   | soluble                                                         |
| Partition coefficient: n-octanol/water             | Deltamethrin: log Pow: 6.4 (25 °C)                              |
| Viscosity, dynamic                                 | No data available                                               |

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|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| <b>Viscosity, kinematic</b> | No data available                                            |
| <b>Oxidizing properties</b> | No data available                                            |
| <b>Explosivity</b>          | No data available                                            |
| <b>Other information</b>    | Further safety related physical-chemical data are not known. |

### SECTION 10: STABILITY AND REACTIVITY

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Stable under normal conditions.                                                      |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                                         |
| <b>Possibility of hazardous reactions</b> | No hazardous reactions when stored and handled according to prescribed instructions. |
| <b>Conditions to avoid</b>                | Extremes of temperature and direct sunlight.                                         |
| <b>Incompatible materials</b>             | Strong acids                                                                         |
| <b>Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use.                   |

### SECTION 11: TOXICOLOGICAL INFORMATION

|                                             |                                                                                                     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Exposure routes</b>                      | Inhalation, Ingestion                                                                               |
| <b>Immediate Effects</b>                    |                                                                                                     |
| <b>Eye</b>                                  | Not expected to produce significant adverse effects when recommended use instructions are followed. |
| <b>Skin</b>                                 | Not expected to produce significant adverse effects when recommended use instructions are followed. |
| <b>Ingestion</b>                            | Not expected to produce significant adverse effects when recommended use instructions are followed. |
| <b>Inhalation</b>                           | May be harmful by inhalation (after often repeated exposure).                                       |
| <b>Information on toxicological effects</b> |                                                                                                     |
| <b>Acute oral toxicity</b>                  | LD50 (Rat) > 5,050 mg/kg                                                                            |
| <b>Acute inhalation toxicity</b>            | LC50 (Rat) > 26.1 mg/l<br>Exposure time: 4 h<br>Determined in the form of dust.                     |
| <b>Acute dermal toxicity</b>                | LD50 (Rabbit) > 2,020 mg/kg                                                                         |
| <b>Skin corrosion/irritation</b>            | No skin irritation (Rabbit)                                                                         |
| <b>Serious eye damage/eye irritation</b>    | No eye irritation (Rabbit)                                                                          |



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### Respiratory or skin sensitisation

Skin: Non-sensitizing. (Guinea pig)

### Assessment STOT Specific target organ toxicity – single exposure

Deltamethrin: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity – repeated exposure

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient neurobehavioral effects typical for pyrethroid neurotoxicity.

### Assessment mutagenicity

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

|                                 |            |          |
|---------------------------------|------------|----------|
| Crystalline quartz (respirable) | 14808-60-7 | Group A2 |
|---------------------------------|------------|----------|

### NTP

|                                 |            |
|---------------------------------|------------|
| Crystalline quartz (respirable) | 14808-60-7 |
|---------------------------------|------------|

### IARC

|                                 |            |                       |
|---------------------------------|------------|-----------------------|
| Deltamethrin                    | 52918-63-5 | Overall evaluation: 3 |
| Crystalline quartz (respirable) | 14808-60-7 | Overall evaluation: 1 |

### OSHA

None.

### Assessment toxicity to reproduction

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 0.00091 mg/l  
Exposure time: 96 h

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|                                           |                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicity to aquatic invertebrates</b>  | The value mentioned relates to the active ingredient deltamethrin.                                                                                                                                                                                                                                          |
|                                           | EC50 (Daphnia magna (Water flea)) 0.00056 mg/l                                                                                                                                                                                                                                                              |
|                                           | Exposure time: 48 h                                                                                                                                                                                                                                                                                         |
|                                           | The value mentioned relates to the active ingredient deltamethrin.                                                                                                                                                                                                                                          |
| <b>Toxicity to aquatic plants</b>         | EC50 (algae) > 9.1 mg/l                                                                                                                                                                                                                                                                                     |
|                                           | Exposure time: 96 h                                                                                                                                                                                                                                                                                         |
|                                           | The value mentioned relates to the active ingredient deltamethrin.                                                                                                                                                                                                                                          |
| <b>Biodegradability</b>                   | Deltamethrin:<br>Not rapidly biodegradable                                                                                                                                                                                                                                                                  |
| <b>Koc</b>                                | Deltamethrin: Koc: 10240000                                                                                                                                                                                                                                                                                 |
| <b>Bioaccumulation</b>                    | Deltamethrin: Bioconcentration factor (BCF) 1,400<br>Does not bioaccumulate.                                                                                                                                                                                                                                |
| <b>Mobility in soil</b>                   | Deltamethrin: Immobile in soil                                                                                                                                                                                                                                                                              |
| <b>Results of PBT and vPvB assessment</b> |                                                                                                                                                                                                                                                                                                             |
| <b>PBT and vPvB assessment</b>            | Deltamethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).                                                                                                                   |
| <b>Additional ecological information</b>  | No other effects to be mentioned.                                                                                                                                                                                                                                                                           |
| <b>Environmental precautions</b>          | Do not allow to get into surface water, drains and ground water.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Do not apply when weather conditions favor runoff or drift.<br>Apply this product as specified on the label. |

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | Dispose in accordance with all local, state/provincial and federal regulations.                                                                                                                         |
| <b>Contaminated packaging</b> | Consult state and local regulations regarding the proper disposal of container.<br>Follow advice on product label and/or leaflet.                                                                       |
| <b>RCRA Information</b>       | Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply. |

## SECTION 14: TRANSPORT INFORMATION

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According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

### SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-772

#### **US Federal Regulations**

##### **TSCA list**

|                                 |            |
|---------------------------------|------------|
| Calcium carbonate               | 1317-65-3  |
| Crystalline quartz (respirable) | 14808-60-7 |
| Stearic acid                    | 57-11-4    |

##### **US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

No export notification needs to be made.

##### **SARA Title III - Section 302 - Notification and Information**

Not applicable.

##### **SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

#### **US States Regulatory Reporting**

##### **CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

|                                 |            |               |
|---------------------------------|------------|---------------|
| Crystalline quartz (respirable) | 14808-60-7 | Carcinogenic. |
|---------------------------------|------------|---------------|

##### **US State Right-To-Know Ingredients**

|                                 |            |        |
|---------------------------------|------------|--------|
| Calcium carbonate               | 1317-65-3  | MN, RI |
| Crystalline quartz (respirable) | 14808-60-7 | MN, RI |
| Stearic acid                    | 57-11-4    | MN     |

#### **Environmental**

##### **CERCLA**

None.

##### **Clean Water Section 307(a)(1)**

None.

##### **Safe Drinking Water Act Maximum Contaminant Levels**

None.

#### **EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification

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criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Hazard statements:** Keep out of the reach of children.

### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms

|         |                                                                       |
|---------|-----------------------------------------------------------------------|
| 49CFR   | Code of Federal Regulations, Title 49                                 |
| ACGIH   | US. ACGIH Threshold Limit Values                                      |
| ATE     | Acute toxicity estimate                                               |
| CAS-Nr. | Chemical Abstracts Service number                                     |
| CERCLA  | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS  | European inventory of existing commercial substances                  |
| ELINCS  | European list of notified chemical substances                         |
| IARC    | International Agency for Research on Cancer                           |
| IATA    | International Air Transport Association                               |
| IMDG    | International Maritime Dangerous Goods                                |
| N.O.S.  | Not otherwise specified                                               |
| NTP     | US. National Toxicology Program (NTP) Report on Carcinogens           |
| OECD    | Organization for Economic Co-operation and Development                |
| TDG     | Transportation of Dangerous Goods                                     |
| TWA     | Time weighted average                                                 |
| UN      | United Nations                                                        |
| WHO     | World health organisation                                             |

#### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 0      Instability - 0      Others - none

#### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 0      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 14: Transport Information. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

**Revision Date:** 09/29/2021

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

## DOOR TREATMENTS

**KILLS CRAWLING INSECTS (INCLUDING: ANTS, INCLUDING CARPENTER ANTS, BOOKlice, CARPET BEETLES, CENTIPEDES, CLOVERMITES, CRICKETS, MILLIPEDES, ROACHES, SILVERFISH, SOWBUGS, SPRINGTAILS, AND SPIDERS):** Apply as a crack and crevice treatment into cracks and crevices in all hiding places behind baseboards, sinks, cabinets, meter boxes, door frames, windows, and closets. Apply as a spot treatment or general surface application to areas where insect activity is expected and crawling pests may be found. General surface applications are not intended to control ant colonies.

**FLEAS AND TICKS ON SURFACES:** Treat pet resting quarters. Adult fleas and larvae contacted by applications will be killed. **DO NOT** spray animals directly. Hold product 36" above floor and direct toward floor and lower walls at a rate of 10 seconds per 100 sq. ft. Making sure that all floor (rugs and carpets), sofa and chair surfaces are contacted. Treat adjacent cracks and crevices such as behind baseboards and edges of carpet and floor covers. Treat higher cracks such as upper door jams and window framing, behind pictures and other areas where females may crawl to lay eggs. Treatment may be repeated daily if necessary. Keep area closed for 15 minutes. Open and ventilate thoroughly before reoccupying. Reapply every 21 days if necessary.

## OUTDOOR TREATMENTS

### RESTRICTIONS

All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure; 2. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch; 3. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level; • Spot treatments must **NOT** exceed two square feet in size. **DO NOT** spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. **DO NOT** allow the product to enter any drain during or after application. **DO NOT** apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment. **DO NOT** apply or irrigate to the point of runoff. **DO NOT** make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). • Rainfall within 24 hours after application may cause unintended runoff of pesticide application. • Treat surfaces to ensure thorough coverage but avoid runoff. • To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

**OUTDOOR SITES AND EXTERIOR SURFACES OF BUILDINGS:** Treat foundations of building where insects are active and may find entrance up to a height of 2 feet. Apply as a residual spray to outside surfaces of buildings where insects tend to congregate. Apply as a residual application inside irrigation or water meter valve boxes. **For ants:** Apply to ant trails, foundations, around doors and windows and other places where ants may be found. **For carpenter bees:** Following treatment, the entrance holes must be left open 24 hours to be certain that returning adult bees are killed. When there is no activity, the hole may be sealed with a suitable sealant. **For flying/stinging insects:** Make applications where these pests may rest or enter the structure. Reapply every 14 days.

## WOOD INFESTING INSECTS

**For Termites:** The purposes of such applications is to kill workers or winged forms which may be present in the treatment areas at the time of application.

**Wood Destroying Insects Living Inside Trees, Utility Poles and Fences:** Use D-Fense NXT as a spot treatment for control of above-ground termites inside trees, utility poles, fencing and decking materials and similar structural members. Wherever possible, locate an interior infested cavity and inject in appropriate quantities. Repeat applications as needed to maintain control of re-infestations.

Contains no CFCs or other ozone depleting substances. Federal regulations prohibit CFC propellants in aerosols.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not dispose of down-the-drain or sewer. Call your local solid waste agency for local disposal options.

**STORAGE:** Store upright at room temperature. Do not store near heat or open flame. Store in an area away from children and pets.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Do not puncture or incinerate! Non-refillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling, if available. If **partly filled:** Call your local solid waste agency for disposal instructions.

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before using or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.



Manufactured for:  
**Control Solutions Inc.**  
5903 Genoa-Red Bluff Rd  
Pasadena, Texas 77507  
A Member of the ADAMA Group



|              |          |             |
|--------------|----------|-------------|
| NOVALURON    | GROUP 15 | INSECTICIDE |
| DELTAETHRIN  | GROUP 3A | INSECTICIDE |
| PYRIPROXYFEN | GROUP 7C | INSECTICIDE |



# D-FENSE® NXT

## PRESSURIZED SOLUTIONS

- For indoor/outdoor use
- For use on mattresses, furniture and carpets
- Broad spectrum insecticide with 2 IGRs
- Kills Bed Bugs

Kills Ants, Bees, Bed Bugs, Carpenter Ants, Carpenter Bees, Cockroaches, Fleas, Flies, Fruit Flies, Gnats, Grain Mites, Hornets, Indian Meal Moths, Mosquitoes, Spiders, Termites\* (Subterranean, Formosan & Drywood), Ticks, and Wasps.

**FOR USE IN AND AROUND:** Apartments, Campgrounds, Non-Food Storage Areas, Homes, Hospitals\*, Hotels, Motels, Nursing Homes\*, Resorts, Restaurants and Other Food Handling Establishments\*, Schools, Supermarkets, Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, Planes\*), Utilities, Warehouses, and other Commercial and Industrial Buildings.

\* See special instructions for these sites under Directions for Use.

## ACTIVE INGREDIENTS:

|                          |                |
|--------------------------|----------------|
| Novalturon .....         | 0.20%          |
| Deltamethrin .....       | 0.06%          |
| Pyriproxyfen .....       | 0.02%          |
| OTHER INGREDIENTS* ..... | 99.72%         |
| <b>TOTAL:</b> .....      | <b>100.00%</b> |

\*Contains petroleum distillates

EPA Reg. No. 53883-415

EPA Est. No: 53883-TX-002

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

#### IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container and label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8051.

**NOTE TO PHYSICIAN:** Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not apply directly to any body of water. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.**

### PHYSICAL AND CHEMICAL HAZARDS

Flammable. Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Do not use in the vicinity of open flame or pilot lights. Do not apply to plastic, painted or varnished surfaces or directly into electrical equipment such as radios, TVs, computers, etc. Do not apply where electrical shock hazards exist.

NET CONTENTS: **15 FL. OZ.**

## DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

• Remove pets, birds, and cover fish aquariums before spraying. • Test first for staining on an inconspicuous area prior to use. **DO NOT** spray up into air. • Direct spray away from face. • Hold can 12-15 inches from surface being sprayed. • For both indoor and outdoor uses.

**RESISTANCE MANAGEMENT:** For resistance management, please note that D-Fense NXT contains Group 15/Novalturon, Group 3A/Deltamethrin and Group 7C/Pyriproxyfen insecticides/acaricides. Any insect/mite population may contain individuals naturally resistant to D-Fense NXT and other Group 15, Group 3A or Group 7C insecticides/acaricides. The resistant individuals may dominate the insect/mite population if these insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

For further information or to report suspected resistance, contact Control Solutions, Inc. at 800-242-5562.

**SPRAY DRIFT ADVISORIES:** THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

**WIND:** Avoid applications during gusty wind conditions.

**HANDHELD TECHNOLOGY APPLICATIONS:** Take precautions to minimize spray drift.

### INDOOR RESIDENTIAL USES:

**DO NOT** allow to enter indoor or outdoor drains.

No permitla a entrada a desagües internos o externos



**\* IN HOSPITALS AND NURSING HOMES: DO NOT** apply this product in hospital or nursing home rooms while occupied. Patients should be removed from room prior to treatment. Room should be thoroughly ventilated after spraying. Do not return patients to room until after ventilation.

**\* FOOD/FEED HANDLING ESTABLISHMENTS (Places other than private residences in which food is held, processed, prepared or served):** Cover or remove exposed food/feed from the treatment area prior to application. All food processing surfaces in the treated area should be covered during treatment or thoroughly washed before use. **DO NOT** apply directly to food or food handling surfaces. This product is for use in federally inspected meat and poultry plants, shell egg grading, and egg production plants as a crack and crevice treatment. Except in federally inspected meat and poultry plants, spot or crack and crevice applications may be made while the facility is in operation. General surface applications should be used only when the facility is not in operation provided exposed food/feed and all food/feed processing and/or handling equipment has been covered or removed prior to application. After application in food/feed processing plants, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces in the treated area which food/feed will contact.

**Non-Food/Non-Feed Areas:** Examples of non-food/non-feed areas include garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling). All areas that insects inhabit or through which insects may enter should be treated.

**\* PLANES: DO NOT** apply in aircraft cabins. **DO NOT** spray on plastic, painted, or varnished surfaces or directly into any electronic equipment (where such as radios, televisions, computers, etc.) **DO NOT** use this product in electrical equipment (where there is exposed wiring or contact points) due to possibility of short circuits and shock hazard. Product should only be used when can temperature is above 60°F. If can temperature is below 60°F, store at room temperature until a temperature above 60°F is reached.

**BED BUGS:** Remove linens and wash before reuse. Take bed apart and treat cracks, joints and interior of framework. Treat mattresses and box springs; especially tufts, folds, and edges. Also treat picture frames, baseboards, moldings and all cracks and crevices in the room. Allow to dry before remaking bed. Do not use in patient rooms in hospitals and nursing homes for treatment of bed bugs while occupied by the patient, elderly or infirm. May be used in conjunction with a bed bug proof mattress encasement. To treat medical equipment, transport chairs and wheelchairs: Spray the seat, especially folds and edges, and allow to dry thoroughly before using. Additionally, apply the frame and any areas where bed bugs may hide. Always ensure that the equipment is thoroughly dry before using.

### INDOOR/OUTDOOR

**CRACK AND CREVICE APPLICATION:** Use D-Fense NXT with supplied actuator and injection tubes. Inject D-Fense NXT into cracks and crevices or void spaces where insects may be harboring, living or breeding. Place injector tip into cracks, crevices, holes and other small openings. Apply product for one second. For light infestations move injector tip along cracks while treating at a rate of three linear feet per second. For heavy infestations move injector tip along at one linear foot per second. For wall and equipment voids calculate the void's cubic area and treat at the rate of five to ten seconds per three cubic feet. Several holes may be required in long-running voids.

**SPOT AND VOID TREATMENT:** For spot treatments, place actuator in down position. Hold actuator away from face and apply at the rate of 1 second per 2 sq. ft. For voids, place actuator in the up position, calculate the void's cubic area and treat at the rate of five to ten seconds per three cubic feet. Several holes may be required in long-running voids.

**GENERAL SURFACE APPLICATION:** Apply to areas where insect activity is expected and crawling pests may be found. Hold actuator away from face and apply a light spray at the rate of 10 seconds per 100 sq. ft.



# SAFETY DATA SHEET

## D-Fense NXT

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Revision Date: March 13, 2017

### SECTION 1: IDENTIFICATION

**Product Name:** D-Fense NXT  
**EPA Registration No.:** 53883-415  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** N/A – Multiple Active Ingredients  
**Chemical Name of Active Ingredient(s):** Deltamethrin  
Novaluron  
Pyriproxyfen  
**Manufactured for:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Aerosol with a strong alcohol odor. Inhalation of vapors may cause drowsiness or dizziness. Extremely flammable aerosol.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

|                                                  |            |
|--------------------------------------------------|------------|
| Aspiration Hazard                                | Category 1 |
| Flammable Aerosols                               | Category 1 |
| Specific Target Organ Toxicity – Single Exposure | Category 3 |

**Signal Word:** DANGER



**Hazard Statement(s):** May be fatal if swallowed and enters airways.  
Extremely flammable aerosol.  
May cause drowsiness or dizziness.

#### Precautionary Statement(s):

**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Avoid breathing mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.

**Response:** **IF SWALLOWED:** Immediately call a poison center/doctor. Do NOT induce vomiting.  
**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                              | CAS Number  | Weight %     |
|--------------------------------------------|-------------|--------------|
| Distillates, petroleum, hydrotreated light | 64742-47-8  | 70.0 – 85.0% |
| Acetone                                    | 67-64-1     | 10.0 – 25.0% |
| Novaluron                                  | 116714-46-6 | 0.2%         |
| Deltamethrin                               | 52918-63-5  | 0.06%        |
| Pyriproxyfen                               | 95737-68-1  | 0.02%        |
| Carbon dioxide                             | 124-38-9    | 1.0 – 5.0%   |

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

**SECTION 4: FIRST AID MEASURES**

|                     |                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF IN EYES:</b>  | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.                                        |
| <b>IF ON SKIN:</b>  | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.                                                                                                          |
| <b>IF INHALED:</b>  | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                           |
| <b>IF INGESTED:</b> | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

**Most important symptoms/effects, acute and delayed:** Moderate but temporary skin irritation. Drowsiness or dizziness if inhaled. Vomiting may cause aspiration pneumonia. Long-term exposure to skin without washing may cause moderate skin effects such as redness, dryness, sloughing and shallow to deep fissuring.

**Note to Physician:** Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

**SECTION 5: FIRE-FIGHTING MEASURES**

|                                                        |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media:</b>                   | Foam, dry chemical, carbon dioxide or water fog/spray                                                                                                                                                                                                                                                                                                   |
| <b>Unsuitable Extinguishing Media:</b>                 | Water jet                                                                                                                                                                                                                                                                                                                                               |
| <b>Hazardous Combustion Products:</b>                  | Thermal decomposition may produce toxic carbon and nitrogen oxides, and halogenated hydrocarbons.                                                                                                                                                                                                                                                       |
| <b>Special Protective Equipment &amp; Precautions:</b> | Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). |
| <b>Unusual Fire &amp; Explosion Hazards:</b>           | Compressed gas. Containers may burst under fire conditions.                                                                                                                                                                                                                                                                                             |

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

|                                   |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions:</b>      | See Section 8 for personal protection equipment.                                                                                                                                                                                                                                                                                                                     |
| <b>Environmental Precautions:</b> | Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.                                                                                                                                                                                                                                      |
| <b>Methods for Containment:</b>   | Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. |
| <b>Methods for Clean-up:</b>      | Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.                                                                                      |
| <b>Other Information:</b>         | This product contains an ingredient regulated by CERCLA ('Superfund'). See Section 15 for additional information.                                                                                                                                                                                                                                                    |

**SECTION 7: HANDLING AND STORAGE**

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b>                      | RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes. Avoid all sources of ignition. |
| <b>Storage:</b>                       | <b>See pesticide label for full information on product storage.</b> Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals. Containers may explode at or above listed maximum storage temperature.                                                                                                                                                                                                    |
| <b>Storage Temperature (Min/Max):</b> | Do not store at temperatures exceeding 122°F (50°C).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product Incompatibilities:</b>     | Avoid contact with strong oxidizers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

**Exposure Guidelines:**

| COMPONENT             | OSHA PEL                                   | ACGIH TLV                                                                               | NIOSH REL                                                             |
|-----------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Acetone               | TWA: 1000 ppm or<br>2420 mg/m <sup>3</sup> | TWA: 500 ppm or<br>1210 mg/m <sup>3</sup><br>STEL: 750 ppm or<br>1815 mg/m <sup>3</sup> |                                                                       |
| Petroleum distillates | 500 ppm (TWA)                              |                                                                                         | 350 mg/m <sup>3</sup> (TWA)<br>1,800 mg/m <sup>3</sup> (CEIL)(15 min) |



|                |                                            |                                  |                                                                                                                |
|----------------|--------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------|
| Carbon dioxide | TWA: 5000 ppm or<br>9000 mg/m <sup>3</sup> | TWA: 5000 ppm<br>STEL: 30000 ppm | IDLH: 40000 ppm<br>TWA: 5000 ppm or<br>9000 mg/m <sup>3</sup><br>STEL: 30000 ppm or<br>54000 mg/m <sup>3</sup> |
|----------------|--------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------|

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for organic vapors.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                     |                                         |                                    |
|---------------------------------|---------------------|-----------------------------------------|------------------------------------|
| <b>Appearance:</b>              | Aerosol             | <b>Upper/Lower Flammability Limits:</b> | Not determined                     |
| <b>Odor:</b>                    | Strong alcohol      | <b>Vapor Pressure:</b>                  | Not determined                     |
| <b>Odor Threshold:</b>          | Not determined      | <b>Vapor Density:</b>                   | Not determined                     |
| <b>pH (1% dispersion):</b>      | 5.0 – 5.5           | <b>Relative Density (@24°C):</b>        | 0.811 (typical)                    |
| <b>Melting /Freezing Point:</b> | Not determined      | <b>Solubility in Water:</b>             | Not determined                     |
| <b>Boiling Point/Range:</b>     | Not determined      | <b>Partition Coefficient:</b>           | Not determined                     |
| <b>Flash Point:</b>             | <75°F (concentrate) | <b>Auto-ignition Temperature:</b>       | Not determined                     |
| <b>Evaporation Rate:</b>        | Not determined      | <b>Decomposition Temperature:</b>       | Not determined                     |
| <b>Flammability:</b>            | Not applicable      | <b>Viscosity:</b>                       | 1.34 cP at 25°C<br>1.10 cP at 39°C |

#### SECTION 10: STABILITY AND REACTIVITY

|                                            |                                                                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | No hazardous chemical reactions known if stored and handled as indicated.                                                       |
| <b>Chemical Stability:</b>                 | Stable under normal storage and handling conditions.                                                                            |
| <b>Possibility of Hazardous Reactions:</b> | No potential for hazardous reactions known if stored and handled as indicated.                                                  |
| <b>Conditions to Avoid:</b>                | Exposure to temperatures above 122°F (50°C). Avoid all sources of ignition: heat, sparks, open flames. Avoid prolonged storage. |
| <b>Incompatible Materials:</b>             | Strong oxidizers                                                                                                                |

**Hazardous Decomposition Products:** Thermal decomposition may produce toxic carbon and nitrogen oxides, and halogenated hydrocarbons.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eye contact, Skin contact, Inhalation, Ingestion  
**Symptoms of Exposure:** Moderate but temporary skin irritation. Drowsiness and/or dizziness.  
**Oral LD<sub>50</sub>:** >5,000 mg/kg (rat)  
**Dermal LD<sub>50</sub>:** >5,050 mg/kg (rat)  
**Inhalation LC<sub>50</sub>:** >2.17 mg/L (rats)(no mortality at this concentration)  
**Eye Irritation/Damage:** Non-irritant (rabbit)  
**Skin Corrosion/Irritation:** Mild irritation with all effects clearing in 72 hours (rabbit)  
**Skin Sensitization:** Non-sensitizer (guinea pig)

**Chronic/Subchronic Toxicity:** No data available on the mixture  
**Mutagenicity:** No data available on the mixture  
**Reproductive Toxicity:** No data available on the mixture  
**Neurotoxicity:** No data available on the mixture  
**Target Organs:** No data available on the mixture  
**Aspiration Hazard:** Contains petroleum distillates so concentrate prior to adding propellant may be an aspiration hazard.

**Carcinogenicity:**

| Chemical Name | ACGIH | IARC    | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Deltamethrin  |       | Group 3 |     |      |

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

This product is toxic to fish and aquatic organisms. Do not apply directly to any body of water. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

**ECOTOXICITY DATA:**

**Fish Toxicity:** No data available on the mixture  
**Aquatic Invertebrate Toxicity:** No data available on the mixture  
**Aquatic Plant Toxicity:** No data available on the mixture  
**Avian Toxicity:** No data available on the mixture  
**Honeybee Toxicity:** No data available on the mixture

**ENVIRONMENTAL EFFECTS:**

**Persistence and Degradability:** No data available on the mixture  
**Bioaccumulation:** No data available on the mixture  
**Mobility:** No data available on the mixture  
**Other Adverse Effects:** No data available on the mixture

**SECTION 13: DISPOSAL CONSIDERATIONS**

- Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.
- Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.
- RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

**SECTION 14: TRANSPORTATION INFORMATION**

- DOT** UN1950, Aerosols, flammable, 2.1
- (Ground):** This product may be classified as Limited Quantity.
- IMDG (Sea):** UN1950, Aerosols, flammable, 2.1, Marine Pollutant
- IATA (Air):** UN1950, Aerosols, flammable, 2.1

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under FIFRA:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

- Section 302 – Extremely hazardous substances:** None
- Section 311/312 – Hazard Categories:** Acute (Immediate); Fire; Sudden release of pressure
- Section 313 –** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % |
|---------------|------------|----------|
| None listed   |            |          |

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ       | Quantity of Finished Product |
|---------------|------------|----------|------------------------------|
| Acetone       | 67-64-1    | 5000 lbs | 3,693 gallons of concentrate |

**CALIFORNIA PROPOSITION 65:**

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------|------------|-----------------------|
| None listed   |            |                       |

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

| Chemical Name                              | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------------|------------|---------------|--------------|
| Acetone                                    | X          | X             | X            |
| Carbon dioxide                             | X          | X             | X            |
| Distillates, petroleum, hydrotreated light | X          | X             | X            |

**SECTION 16: OTHER INFORMATION**

|             |                         |                       |                      |                               |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 2 | <b>Flammability</b> 3 | <b>Instability</b> 0 | <b>Special Hazards</b> – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

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**Revision Date:** March 13, 2017  
**Document Superseded:** N/A – New document  
**Revision Note:**

# SAFETY DATA SHEET

Issuing Date 5/01/2015



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** DT336

**Product Name** Dr. T's Mosquito Repelling Granules

### Other means of identification

**Synonyms** None

**Size** 5 lbs

### Recommended use of the chemical and restrictions on use

**Recommended Use** Repellant, Pest, Non-Aerosol

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Woodstream Corporation

**Supplier Address** 69 North Locust St.

Lititz

PA

17543

US

**Supplier Phone Number** Phone:(717) 626-2125

Fax:(717) 626-1912

Contact Phone(717) 626-2125

**Regulatory Licenses** 25(b) Exempt

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### GHS Label elements, including precautionary statements

### Emergency Overview



The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Colorless to brown

**Physical State** Granular Solid

**Odor** Mint-like

**Precautionary Statements - Prevention**

Obtain special instructions before use

**Precautionary Statements - Response**

None

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

99.6% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May cause slight eye irritation

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

### 4. FIRST AID MEASURES

**First aid measures**

**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact**

Wash with soap and water.

**Inhalation**

Remove to fresh air.

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** No information available.



**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**                      Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

No information available.

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact**                      No.

**Sensitivity to Static Discharge**                      No.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**                      Avoid contact with eyes.

**Environmental Precautions**

**Environmental Precautions**                      Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for Containment**                      Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**                      Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### STORAGE AND DISPOSAL

**STORAGE:** Store only in original container, in cool, dry, and well-ventilated location inaccessible to children and pets. Do not store near heat or open flame.

**DISPOSAL:** If Empty: non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** No special protective equipment required.

**Skin and Body Protection** No special protective equipment required.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                                      |                          |                        |                          |
|--------------------------------------|--------------------------|------------------------|--------------------------|
| <b>Physical State</b>                | Granular Solid           | <b>Odor</b>            | Mint-like                |
| <b>Appearance</b>                    | Colorless to brown       | <b>Odor Threshold</b>  | No information available |
| <b>Color</b>                         | No information available |                        |                          |
| <b>Property</b>                      | <b>Values</b>            | <b>Remarks/ Method</b> |                          |
| <b>pH</b>                            | No data available        | None known             |                          |
| <b>Melting / freezing point</b>      | No data available        | None known             |                          |
| <b>Boiling point / boiling range</b> | 360 degrees F            | None known             |                          |
| <b>Flash Point</b>                   | >280 degrees F           | None known             |                          |
| <b>Evaporation Rate</b>              | No data available        | None known             |                          |
| <b>Flammability (solid, gas)</b>     | No data available        | None known             |                          |
| <b>Flammability Limit in Air</b>     |                          |                        |                          |
| Upper flammability limit             | No data available        |                        |                          |



|                                               |                         |            |
|-----------------------------------------------|-------------------------|------------|
| <b>Lower flammability limit</b>               | No data available       |            |
| <b>Vapor pressure</b>                         | > 10 mm of HG           | None known |
| <b>Vapor density</b>                          | No data available       | None known |
| <b>Specific Gravity</b>                       | 0.897 @ 25/25 degrees C | None known |
| <b>Water Solubility</b>                       | Very slight             | None known |
| <b>Solubility in other solvents</b>           | No data available       | None known |
| <b>Partition coefficient: n-octanol/water</b> | No data available       | None known |
| <b>Autoignition temperature</b>               | No data available       | None known |
| <b>Decomposition temperature</b>              | No data available       | None known |
| <b>Kinematic viscosity</b>                    | No data available       | None known |
| <b>Dynamic viscosity</b>                      | No data available       | None known |
| <b>Explosive properties</b>                   | No data available       |            |
| <b>Oxidizing Properties</b>                   | No data available       |            |

**Other Information**

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> |                   |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| <b>Product Information</b> | Specific test data for the substance or mixture is not available. |
| <b>Inhalation</b>          | Specific test data for the substance or mixture is not available. |
| <b>Eye Contact</b>         | Specific test data for the substance or mixture is not available. |
| <b>Skin Contact</b>        | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>           | Specific test data for the substance or mixture is not available. |



**Component Information** No information available

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied.

**Target Organ Effects** None known.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity** **Product Information**

The following values are calculated based on chapter 3.1 of the GHS document  
Not applicable

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available

**Other adverse effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### **Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**California Hazardous Waste Codes** 232

### 14. TRANSPORT INFORMATION

|                             |               |
|-----------------------------|---------------|
| <b><u>DOT</u></b>           | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |

|                   |               |
|-------------------|---------------|
| <b><u>TDG</u></b> | Not regulated |
|-------------------|---------------|

|                   |               |
|-------------------|---------------|
| <b><u>MEX</u></b> | Not regulated |
|-------------------|---------------|

|                    |               |
|--------------------|---------------|
| <b><u>ICAO</u></b> | Not regulated |
|--------------------|---------------|

|                             |               |
|-----------------------------|---------------|
| <b><u>IATA</u></b>          | Not regulated |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |

|                        |               |
|------------------------|---------------|
| <b><u>IMDG/IMO</u></b> | Not regulated |
| <b>Hazard Class</b>    | N/A           |

|                   |               |
|-------------------|---------------|
| <b><u>RID</u></b> | Not regulated |
|-------------------|---------------|

|                   |               |
|-------------------|---------------|
| <b><u>ADR</u></b> | Not regulated |
|-------------------|---------------|

|                   |               |
|-------------------|---------------|
| <b><u>ADN</u></b> | Not regulated |
|-------------------|---------------|

### 15. REGULATORY INFORMATION

#### International Inventories

|             |                                                      |
|-------------|------------------------------------------------------|
| <b>TSCA</b> | Complies                                             |
| <b>DSL</b>  | All components are listed either on the DSL or NDSL. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

#### US Federal Regulations



**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

|                                          |    |
|------------------------------------------|----|
| <b>Acute Health Hazard</b>               | No |
| <b>Chronic Health Hazard</b>             | No |
| <b>Fire Hazard</b>                       | No |
| <b>Sudden release of pressure hazard</b> | No |
| <b>Reactive Hazard</b>                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

This chemical is a pesticide product that is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Pesticide Label Signal Word: Caution

PRECAUTIONARY STATEMENTS: Avoid breathing vapors or dust and do not swallow. Avoid contact with eyes as product may cause eye irritation. Avoid prolonged contact with skin or clothing. Wash thoroughly with soap and water after handling this product. Remove contaminated clothing and wash before reuse. Avoid contamination of food or feed. Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark.

**16. OTHER INFORMATION**

|             |                         |                       |                          |                                        |
|-------------|-------------------------|-----------------------|--------------------------|----------------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 0 | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards -</b> |
| <b>HMIS</b> | <b>Health Hazards</b> 0 | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b>             |
|             |                         |                       |                          | X                                      |

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| <b>Prepared By</b>   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| <b>Revision Date</b> | 09-Apr-2014                                                                            |
| <b>Revision Note</b> | No information available                                                               |

**Disclaimer**

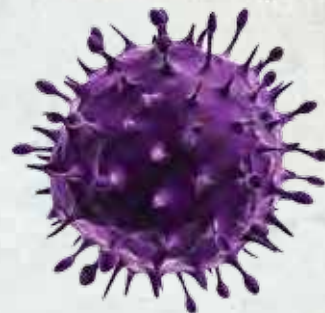
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text



**End of Safety Data Sheet**

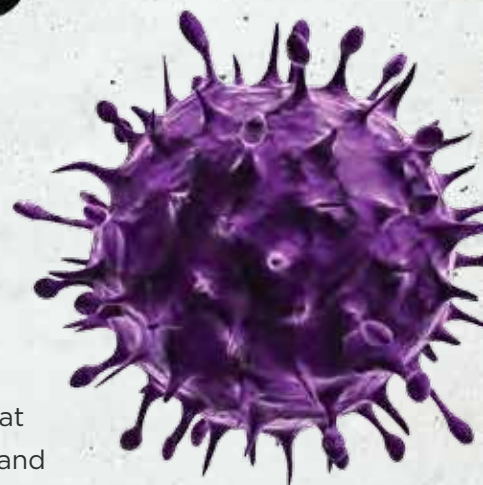


# PROTECT & DEFEND



When you face serious pest control problems, there are often additional dangers from bacteria and viruses. Protect yourself and your customers by applying Nisus DSV™, a disinfectant, sanitizer and virucide.

From *Hantavirus* to *E. Coli*, DSV kills harmful germs, bacteria, fungi, viruses and small flies. Spray DSV on rodent, bat and bird droppings prior to clean-up, then spray the area again afterwards. It's also a great tool in commercial kitchens when used in conjunction with Nibor-D® and applied with TrueTech® equipment.



Remember, always read, understand and comply with the label. Nibor-D, Nisus DSV, TrueTech and Nisus Corporation are trademarks or registered trademarks of Nisus Corporation. ©2017 Nisus Corporation #DSVFLY-0117

## APPLICATION:

Mix 2 oz. per gallon and wet surface for 10 minutes. Foam into drains to kill small flies and their larvae.

## TARGET PESTS:



BACTERIA



VIRUSES



SMALL FLIES



CREATING A WORLD  
OF SUSTAINABILITY.

**NISUS DSV™**



100 NISUS DRIVE • ROCKFORD, TN 37853  
800.264.0870 • [WWW.NISUSCORP.COM](http://WWW.NISUSCORP.COM)





**SEWER BACKUP • RIVER FLOODING • WATER/SMOKE DAMAGE RESTORATION  
HOME • INDUSTRIAL • HOSPITAL • FARM & FOOD HANDLING AND PROCESS AREAS**

**ACTIVE INGREDIENTS:**

|                                                                                                                        |                 |
|------------------------------------------------------------------------------------------------------------------------|-----------------|
| Octyl Decyl Dimethyl Ammonium Chloride....                                                                             | 1.650%          |
| Didecyl Dimethyl Ammonium Chloride .....                                                                               | 0.825%          |
| Dioctyl Dimethyl Ammonium Chloride .....                                                                               | 0.825%          |
| Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%)<br>dimethyl benzyl ammonium chloride ..... | 2.200%          |
| <b>INERT INGREDIENTS .....</b>                                                                                         | <b>94.500%</b>  |
| <b>TOTAL.....</b>                                                                                                      | <b>100.000%</b> |

EPA Reg. No. 10324-80-64405    EPA Est. 64405-TN-1

MADE IN U.S.A.

**KEEP OUT OF REACH OF CHILDREN  
DANGER PELIGRO**

**First Aid**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.**

**DANGER: IF YOU CANNOT READ ENGLISH, ASK YOUR SUPERVISOR TO EXPLAIN THE APPROPRIATE DIRECTIONS FOR USE BEFORE WORKING WITH THIS PRODUCT.**

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

**DANGER. Keep Out of Reach of Children.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, absorbed through the skin. Harmful if inhaled. Avoid breathing spray mist. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not mix with oxidizers, anionic soaps and detergents.

**NISUS DSV**

Disinfectant, Cleaner, Mildewstat, Fungicide, Non-Food Contact Surface Sanitizer, Virucide\*, Deodorizer for Hospitals, Nursing Homes, Whirlpools, Home, Hotels, Motels, Waterbed Conditioner, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use and for Harvesting & Handling Equipment. Effective in hard water up to 400 ppm hard-



ness (calculated as  $\text{CaCO}_3$ ) in the presence of 5% serum contamination.

#### Small Fly Ovicidal Treatment.

#### Athletic Surface Disinfectant.

Formulated for effective Poultry, Swine Premise and Mushroom Farm Sanitation.

This formulation is for use on hard, non-porous surfaces in:

- Hospitals, medical and dental offices and clinics, healthcare facilities, nursing homes, physician offices, operating rooms/theaters, radiology rooms, isolation wards, quarantine areas, hospices, and medical research facilities.
- Patient care rooms & facilities, recovery rooms, Emergency Rooms, X-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, respiratory therapy, surgi-centers, labs, out-patient surgical centers, blood collection rooms, central supply, housekeeping & janitorial rooms, ophthalmic/optometric facilities.
- EMS & fire facilities, emergency vehicles, ambulances, ambulance equipment/surfaces, police cars, fire trucks.
- Day care centers and nurseries, sick rooms, elder care centers, kindergartens, and preschools.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities, elder care facilities.
- Restaurants, restaurants and bars, bars, kitchens, taverns, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores.
- Crime scenes and funeral homes, morgues, mortuaries, burial vaults, mausoleums, autopsy rooms, cadaver processing areas.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals, maintenance vehicles.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms, shower and bath areas.
- Hotels, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes, condos, apartments, vacation cottages, summer homes.
- Institutions, schools and colleges, commercial and industrial institutions, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, fieldhouses.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, warehouses.
- Health clubs, spas, tanning salons, tanning spas/beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors. *Not for use on needles or other skin piercing instruments.*
- Museums, art galleries, post offices, performance / theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Humidifier water tanks.
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, farms, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants, canneries, caterers, bakeries, meat packing plants, hide and leather processing plants.
- Processing facilities for Fish, Milk, Citrus, Wine, Fruit, Vegetable, Ice Cream, and Potatoes and beverage plants.
- Tobacco plant premises and equipment.
- Veterinary clinics, animal life science laboratories, animal laboratories, animal research centers, animal quarantine areas, animal holding areas, animal breeding facilities, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, equine farms, pet shops, tack shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities.
- Farmhouses, barns, sheds, tool sheds, barns, cattle barns, swine barns, sheep barns, horse barns, brooder houses, seed houses.
- Household and automotive garages, boats, ships, barges, watercraft, campers, RVs, trailers, mobile homes, cars, automobiles, trucks, delivery trucks, box-cars, tankers, tank trucks, buses, trains, taxis, helicopters and airplanes.
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation, transportation terminals.
- Commercial florist and flower shops.

- Basements, cellars, bedrooms, attics, living rooms and porches.

This product can be used on washable hard, non-porous surfaces such as:

- Food preparation and storage areas.
- Kitchen equipment such as trash compactors.
- Countertops, countertop laminates, stovetops, sinks, tub surfaces, non-food contact surfaces of Slurpee® machines, and exterior surfaces of appliances, refrigerators, microwave ovens and ice machines, shelves, racks and carts.
- Hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, hard, non-porous surfaces of cervical collars and neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops, examination tables, X-ray tables, washing areas, anesthesia, carts, whirlpool surfaces, footbath surfaces.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Highchairs, baby cribs, diaper changing stations, infant bassinets / cribs / warmers / incubators / care equipment, folding tables, hampers, laundry pails.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet seats, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, glazed porcelain, glazed tile and restroom fixtures, bathroom fixtures.
- Glass, laminated surfaces, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble, plastic, (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl, Plexiglas®, vanity tops.
- Tables, chairs, desks, folding tables, workstations, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans/pails, trash barrels, trash cans, trash containers, cuspidors and spittoons.
- Enameled surfaces, painted (finished) woodwork, Formica®, vinyl and plastic upholstery, washable wallpaper.
- Sealed foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large, inflatable, non-porous plastic and rubber structures such as animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.

- Non-wooden picnic tables and outdoor furniture except cushions and wood frames.
- Tattoo equipment. (*Not for use on needles or other skin piercing instruments.*)
- Playground equipment.
- Automobile interiors.
- Maintenance equipment.
- Telephones and Telephone booths.
- External Lenses Vision correction including eyeglasses (not for use on contact lenses), protective eyewear, goggles, light lens covers,
- Optical instruments/implements.
- Hair clippers, cutting implements, plastic rollers, washable nail files.
- Hard hats, headphones.
- Kennel runs, cages, kennel/cages floors, conductive flooring, examination tables, veterinary x-ray tables.
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers, seed houses.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables, exercise equipment.
- Crypton barrier fabric.
- Drinking fountains.
- Windows and mirrors.

Contains no abrasives so it won't scratch surfaces.

This product is a phosphate-free formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

This product is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

This product can be applied through foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems. Follow manufacturers' instructions when using this equipment.

This product is for use as a disinfectant on hard, non-porous surfaces. A potable water rinse is required after application on food contact surfaces.

This product delivers non-acid disinfection performance in an economical concentrate.

Effective sanitizer in the presence of soils.

This product is for use in kitchens, bathrooms and other household areas.

This product is a multi-surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non-food contact glass surfaces.

This product can be used in work areas such as tool rooms and garages for odor control and light duty cleaning.

Great for use in the kitchen, bathroom and other household areas. Eliminates odors. Deodorizes. Will not harm most surfaces.

Disinfects kitchen and bathroom surfaces. Sanitizes non-food contact kitchen and bathroom surfaces. Kills germs. Kills household bacteria. A potable water rinse is required after application on food contact surfaces.

Kills common kitchen and bathroom bacteria and viruses\*.

For larger areas such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfection.

Will not cause swelling of transducer membrane or harm compressor plates.

This product is a versatile sanitizer and broad-spectrum disinfectant formulated for use in Ultrasonic Baths.

This product is a versatile cleaner, sanitizer and broad-spectrum disinfectant formulated for use on bath and therapy equipment.

Kills Avian Influenza A Virus H5N1 on pre-cleaned environmental surfaces.

This product is a one-step disinfectant that is effective against a broad-spectrum of bacteria, is virucidal\*, including HIV-1, HCV & HBV, and inhibits the growth of mold and mildew and their odors when used as directed.

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants at 400 ppm water hardness.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing (*Duck*) Hepatitis B Virus.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Bovine viral diarrhea virus (BVDV), a surrogate for human Hepatitis C virus.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Human and Canine Coronavirus.

This product is a disinfectant and non-food contact surface sanitizer for cleanroom, and laboratory areas to disinfect washable, hard, non-porous non-food contact surfaces such as: Laminar-airflow equipment and Bio-Safety Cabinet work surfaces and exterior surfaces of the following: countertops, sinks, plumbing fixture surfaces, incubators, refrigerators and centrifuge surfaces of metal, stainless steel, glass, plastic such as polystyrene or polypropylene, Formica® and vinyl.

This product is a one-step disinfectant cleaner and odor neutralizer designed for general cleaning, disinfecting, deodorizing and controlling mold and mildew on hard, non-porous environmental surfaces. This product cleans quickly by removing dirt, grime, mold, mildew, body oils, dead skin, blood and other organic matter commonly

found in hospitals, in health care facilities, nursing homes, schools and colleges, day care centers, medical offices, funeral homes, veterinary clinics, pet shops, equine farms, animal life science laboratories, hotels, motels, public areas and restrooms, foodservice establishments and food processing plants. It also eliminates odors leaving surfaces smelling clean and fresh. Use where odors are a problem.

Use this product to clean, sanitize and disinfectant non-porous ambulance equipment and surfaces by rinsing all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.

When used as directed, this product will deodorize surfaces in restroom and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew.

This product is effective against household bacteria and odors caused by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors.

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *Not for use in California.*

This product is for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors.

This product cleans, disinfects and deodorizes surfaces by killing odor causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use on restroom surfaces: glazed ceramic restroom tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms, and locker rooms.

This product is effective at controlling mold and mildew on shower curtains.

This product provides long lasting freshness against tough odors such as odors from litter boxes and pet accidents.

This product cleans, shines, deodorizes and disinfects all hard, non-porous household surfaces listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

Eliminates odors caused by bacteria, mildew and non-fresh foods. Kills odor causing bacteria in the kitchen and bathroom.

This product is for non-scratch cleaning of showers and tubs, shower doors and shower curtains, fixtures and toilet bowls.

This product will not leave a grit or soap scum.

This product is a no-rinse disinfectant cleaner that disinfects, cleans and deodorizes in one labor-saving step.

Kills Athlete's Foot fungus on bathroom surfaces.

This product is a versatile Disinfectant/Sanitizer for Veterinarian, Veterinary Practice, Animal Care, Animal Laboratory, and Agricultural and Farm Premise applications.

This product cleans by removing dirt, grime, mold, mildew, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine or poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities. It eliminates odors leaving surfaces smelling clean and fresh.

This product can be used to disinfect, clean and deodorize terrarium and small animal cages, hot rock, substrate and cage furniture, plastic terrarium ornaments, driftwood, heat caves and water dishes. *Use on rocks and driftwood not allowed in California.*

This product cleans rodent soiled areas.

This product is for use in Poultry Premise Sanitation/Hatcheries:

- Egg Receiving Area
- Egg Holding Area
- Setter Room
- Tray Dumping Area
- Chick Holding Area
- Hatchery Room
- Chick Processing Area
- Chick Loading Area
- Poultry Buildings

This product is for use in Swine Premise Sanitation:

- Farrowing Barns and Areas
- Waterers and Feeders
- Hauling Equipment
- Dressing Plants
- Loading Equipment
- Nursery
- Blocks
- Creep Area
- Chutes

This product is an effective antimicrobial cleaner, designed for use by wholesale and retail florists, shippers and greenhouses.

When used as directed, this product will disinfect hard, non-porous surfaces, such as flower buckets, floors and walls of coolers, design and packing benches, and countertops.

This product can be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors develop.

Use this product to clean, disinfect and deodorize flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors develop.

This product can be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, greenhouse packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause. *Not for use in California:*

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips.
2. Production of ethylene gas, which can injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria.

Use this product to disinfect non-porous salon/barber tools and instruments such as: combs, clippers, plastic rollers, brushes, trimmers, razors, scissors, blades, tweezers, baths, manicure/pedicure instruments and footbath surfaces.

Use this product to clean, sanitize and disinfect hard, non-porous surfaces of personal protective safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, hard hats, headphones, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.

This product is formulated to provide effective cleaning strength that will not dull high gloss floor finishes with repeated use.

This product provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.

Controls the growth of odor-causing bacteria used in waterbed uses. Controls odors caused by bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals. *(Not for use in CA.)*

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grime.

For use in: Federally inspected meat and poultry plants on all hard, non-porous surfaces in inedible product processing areas, non-processing areas and/or exterior areas. All surfaces must be thoroughly rinsed with potable water.

*Escherichia coli*, *Salmonella enterica*, and *Staphylococcus aureus* are common germs found where food is prepared and stored. This product kills these bacteria and helps prevent cross-contamination on treated non-food contact kitchen surfaces listed on this label. A potable water rinse is required after application on food contact surfaces. This product is not for use on dishes, glassware or eating utensils.

This product is effective against the control of small flies on non-food contact surfaces such as floors, walls, drains, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber and plastic in restaurants, kitchens, dishwashing areas and bar and wait station areas.

- Neutral (Neutral pH).

Will not harm sealed stone, sealed grout, or glazed tile.

This product is a complete, chemically balanced disinfectant and sanitizer that provides clear use solutions even in the presence of hard water.

This product is effective against Citrus Canker and Bacterial Spot of Tomatoes through the treatment of the handling, harvesting, storage and transportation equipment.

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions):** At 2 fluid ounces per gallon of water (or equivalent use dilution) and a 10-minute contact time, this product is effective against the following organisms on hard, non-porous inanimate surfaces:

*Burkholderia cepacia*  
*Campylobacter jejuni* – ATCC 29428  
*Corynebacterium ammoniagenes* – ATCC 6871  
*Enterobacter aerogenes* – ATCC 13048  
*Enterobacteriaceae* – with extended beta-lactamase resistance  
*Enterobacter cloacae*  
*Enterococcus faecalis* – ATCC 19433  
*Enterococcus faecium* – Vancomycin resistant  
*Escherichia coli* – ATCC 11229  
*Escherichia coli* – Antibiotic resistant  
*Escherichia coli* 0157:H7  
*Klebsiella pneumoniae* – ATCC 13883  
*Klebsiella pneumoniae* – Antibiotic resistant  
*Legionella pneumophila*  
*Listeria monocytogenes* – ATCC 984  
*Proteus mirabilis*  
*Proteus vulgaris*  
*Pseudomonas aeruginosa* – ATCC 15442  
*Pseudomonas aeruginosa* – Antibiotic resistant  
*Salmonella enterica* – ATCC 10708  
*Salmonella schottmuelleri* – ATCC 8759  
*Salmonella typhi* – ATCC 6539  
*Serratia marcescens* – ATCC 43861  
*Shigella dysenteriae* – ATCC 9361  
*Shigella flexneri*  
*Shigella sonnei*  
*Staphylococcus aureus* – ATCC 6538  
Community Acquired Methicillin Resistant  
*Staphylococcus aureus* – CA MRSA  
*Staphylococcus aureus* – Methicillin resistant – ATCC 33591  
*Staphylococcus epidermidis* – Antibiotic resistant

*Streptococcus pyogenes* – ATCC 19615

*Vibrio cholerae*

*Xanthomonas axonopodis* pv. *Citri* – Not for use in California

*Xanthomonas campestris* pv. *Vesicatoria* – Not for use in California

**FOR SCHOOLS, INDUSTRY AND NON-MEDICAL INSTITUTIONAL USES:** At 1 1/4 ounces per gallon of water (or equivalent use dilution), this product delivers cleaning and germicidal effectiveness. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes diluted or soiled. It is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Escherichia coli* and *Serratia marcescens*. The same AOAC tests used to confirm performance for hospitals were used.

**VIROCIDAL\* PERFORMANCE:** At 1 1/4 ounces per gallon of water use level (or equivalent use dilution) and a 10-minute contact time, this product was evaluated and found to be effective in the presence of 5% blood serum against the following viruses on hard, non-porous surfaces:

Avian influenza A/Turkey/Wisconsin virus – ATCC VR-798  
Herpes Simplex Type1 virus – ATCC VR260  
Herpes Simplex Type2 virus – ATCC VR734  
HIV-1 – AIDS virus  
Influenza A/Brazil Virus  
Vaccinia virus

At 2 ounces per gallon of water use level (or equivalent use dilution) and a 10-minute contact time, this product was evaluated and found to be effective against the following viruses on hard, non-porous surfaces:

Avian influenza A/Turkey/Wisconsin virus – ATCC VR-798  
Avian influenza A virus – H5N1  
Hantavirus  
Hepatitis B Virus – HBV  
Hepatitis C Virus – HCV  
Herpes Simplex Type1 virus – ATCC VR260  
Herpes Simplex Type2 virus – ATCC VR734  
HIV-1 – AIDS virus  
Human Coronavirus  
Influenza A/Brazil virus  
Influenza A H1N1 virus (Strain A/PR/8/34) (ATCC VR-1469)  
Respiratory syncytial virus  
Vaccinia virus

**NON-FOOD CONTACT SANITIZING PERFORMANCE:** At 1 ounce per 2 3/4 gallons of water use-level (or equivalent use dilution) and a 3-minute contact time, this product is an effective one-step sanitizer on hard, non-porous environmental surfaces against:

*Enterobacter aerogenes* (ATCC 13048)  
*Klebsiella pneumoniae* (ATCC 4352)  
*Staphylococcus aureus* (ATCC 6538)

**FUNGICIDAL ACTIVITY:** At 2 ounces per gallon use-level (or equivalent use dilution) and a 10-minute contact time, this product is effective against the following organisms:

*Candida albicans* (ATCC 10231)

*Trichophyton mentagrophytes* (ATCC 9533)

(Athlete's foot fungus) (a cause of Ringworm)

**GENERAL DISINFECTION DIRECTIONS:** For heavily soiled areas, a preliminary cleaning is required. Apply use solution of 1 1/4 ounce per gallon of water to hard, inanimate, non-porous surfaces, thoroughly wetting surfaces as required, with a cloth, brush, mop, sponge or mechanical spray device. For sprayer applications, use a coarse pump or trigger spray device. Spray 6-8 inches from surface. Do not breathe spray. Rub with brush, sponge, mop or cloth. Allow surfaces to remain wet for 10 minutes. Rinse or allow to air dry or wipe up -excess liquid. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**FOR USE AS A ONE-STEP  
CLEANER/DISINFECTANT:**

1. Pre-clean heavily soiled areas.
2. Apply use solution, 1 1/4 ounce per gallon (or equivalent use dilution) to hard, non-porous environmental surfaces using a sponge, brush, cloth, mop or mechanical spray device.
3. To disinfect, all surfaces must remain wet for 10 minutes.
4. Wipe surfaces and let air dry.
5. Prepare a fresh solution at least daily or when use solution becomes soiled.

**Note:** All food contact surfaces, such as appliances and kitchen countertops, must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

**FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A (H5N1) VIRUS:**

For use in homes, hospitals, hotels, motels and schools, the directions for use for hospital disinfection must be followed using the rate of 2 ounces per gallon of water (or equivalent use dilution). For use in animal housing facilities, follow the animal premise directions.

**TO SANITIZE AND DEODORIZE:** Apply use solution of 2 ounces per 5 1/2 gallons of water to hard, inanimate, non-porous surfaces, thoroughly wetting surfaces as required, with a brush, cloth, mop, sponge or mechanical spray device or by immersion. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray. Let stand 3 minutes. Then wipe. Allow to air dry. Replace product if it becomes visibly dirty.

**Note:** With spray applications, cover or remove all food products.

**GENERAL DISINFECTION/VIRUCIDAL\*  
USE DILUTION CHART**

| Ounces of Product | Amount of Water |
|-------------------|-----------------|
| 0.3125 ounces     | 1 quart         |
| 0.625 ounces      | 1/2 gallon      |
| 1 1/4 ounces      | 1 gallon        |
| 3.125 ounces      | 2 1/2 gallons   |
| 6 1/4 ounces      | 5 gallons       |
| 12 1/2 ounces     | 10 gallons      |

**HOSPITAL DISINFECTION/FUNGICIDAL/VIRUCIDAL\*  
USE DILUTION CHART**

| Ounces of Product | Amount of Water |
|-------------------|-----------------|
| 1/2 ounce         | 1 quart         |
| 1 ounce           | 1/2 gallon      |
| 2 ounces          | 1 gallon        |
| 5 ounces          | 2 1/2 gallons   |
| 10 ounces         | 5 gallons       |
| 20 ounces         | 10 gallons      |

**DILUTION CHART:**

|                                            |                             |
|--------------------------------------------|-----------------------------|
| For Hospital or Medical Environment claims | 2 oz / 1 gal. water         |
| For General or Broad Spectrum claims       | 1 1/4 oz / 1 gal. water     |
| For Virucidal* claims                      | 1 1/4 - 2 oz / 1 gal. water |
| For Animal Virucidal* claims               | 1 1/4 - 2 oz / 1 gal. water |
| For Non-Food Contact Sanitizing claims     | 1 oz / 2 3/4 gal. water     |
| For Fungicidal claims                      | 2 oz / 1 gal. water         |
| For Mold and Mildew claims                 | 1 1/4 oz / 1 gal. water     |

**HOSPITAL/HEALTH CARE**

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product can be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

This product is a Hospital Use Disinfectant at 2 ounces per gallon of water modified in the presence of 400 ppm hard water.

**HOSPITALS, DENTAL OFFICES, NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS:** For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard, non-porous surfaces.

**INSTITUTIONAL DISINFECTANT DIRECTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions):** For heavily soiled areas, a preliminary cleaning is required. Add 2 ounces per gallon of water (or equivalent use dilution) and apply to disinfect hard, non-porous surfaces. Apply use solution to

hard, inanimate, non-porous surfaces, thoroughly wetting surfaces with a brush, cloth, mop, sponge or mechanical spray device. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Rinse or allow to air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**Note:** With spray applications cover or remove all food products.

**\*VIRUCIDAL PERFORMANCE:** For heavily soiled areas, a preliminary cleaning is required. Apply 2 ounces per gallon of water use level (or equivalent use dilution) to treated surfaces, thoroughly wetting surfaces with a brush, cloth, mop, sponge or mechanical spray device. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray. Treated surfaces must remain wet for ten minutes. Prepare a fresh solution at least daily or more often if solution becomes soiled.

At 1 1/4 ounce per gallon of water (or equivalent use dilution) in the presence of 5% blood serum and 400 ppm of hardness for a 2-minute contact time, this product was found to be effective against HIV-1 (AIDS Virus).

At 2 ounces per gallon of water (or equivalent use dilution) and in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 100% serum, this product was proven to be effective against (*Duck*) Hepatitis B Virus with a contact time of 10 minutes.

At 2 ounces per gallon of water (or equivalent use dilution) and in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% organic load, this product was proven to be effective against Bovine viral diarrhea virus (BVDV), a surrogate for human Hepatitis C virus with a contact time of 10 minutes.

**\*KILLS HBV, HCV and HIV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of (*Duck*) Hepatitis B Virus (HBV), human immunodeficiency virus Type 1 (HIV-1) which is associated with AIDS, and Hepatitis C Virus (HCV).

**“SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HBV, HCV AND HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.”**

**Personal Protection:** Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, and eye protection.

**Cleaning Procedure:** Blood and other body fluids containing HIV-1, HBV & HCV must be thoroughly cleaned from surfaces and objects before application of this product.

**Disposal of Infectious Materials:** Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

**Contact Time:** Leave surface wet for 2 minutes and 10 minutes for HIV-1 and HBV, respectively. This 2-minute contact time will not control other common type of viruses and bacteria listed on this label. For HCV, leave surface wet for 10 minutes.

**SURGICAL INSTRUMENT PRESOAK:** Add 2 ounces of this product to 1 gallon of water (or equivalent use dilution). Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure. Prepare a fresh solution at least daily or more often if solution becomes visibly dirty.

**Note:** Plastic instruments can remain immersed until sterilization. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle until sterilization. Prolonged soaking will cause damage to metal instruments. Surgical instruments must be sterilized before use.

**ULTRASONIC BATH DISINFECTANT/FUNGICIDE DIRECTIONS:** Use this product to disinfect hard, non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 2 ounces of this product per gallon of water (or equivalent use dilution) directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturers' use directions. Remove objects and wash with sterile water or allow to air dry. Prepare fresh solution for each use.

**FOR DISINFECTING / FUNGICIDAL ON HARD, NON-POROUS FIBERGLASS BATH AND THERAPY EQUIPMENT:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of water (or equivalent use dilution) in the unit at this point. Briefly start the pump to circulate the solution. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solution from the unit and rinse any/all cleaned/disinfected surfaces with fresh water. The unit is ready for reuse.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply a 2-ounce per gallon of water (or equivalent use dilution)

use solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces must remain wet for 10 minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134).

#### **SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN INSTITUTIONAL FACILITIES**

**ULTRASONIC BATH SANITIZING DIRECTIONS:** Use this product to sanitize hard, non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 1 ounce per 2 3/4 gallons of water (or equivalent use dilution) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 3 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water, or allow to air dry. Replace solution at least daily or when solution becomes visibly dirty.

**Note:** This product in its use solution is compatible with stainless steel, aluminum and most other surfaces. Before product use, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

### **FOOD PROCESSING PREMISES**

Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**DIRECTIONS FOR FOOD PROCESSING PLANTS:** For use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Follow Disinfection directions.

**DIRECTIONS FOR FOOD STORAGE AREAS:** For use on non-food contact surfaces such as shelves, floors, walls and tables. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Then follow Disinfection directions.

#### **FOR USE AS A CLEANER / DISINFECTANT IN FOOD PROCESSING PLANTS:**

1. Before using this product in food processing areas, food products and packaging materials must be removed from the room or carefully protected.
2. Apply a 1 1/4 oz. per gallon of water use solution evenly over surface using a brush, cloth, mop, sponge or mechanical spray device. For sprayer applications, use a coarse spray device. Be sure to wet all surfaces thoroughly. Do not breathe spray.
3. Allow product to remain on surface for 10 minutes.
4. Wipe with clean cloth, sponge or paper towel.
5. For heavily soiled areas, thoroughly clean surface prior to disinfecting.

6. After disinfecting food contact surfaces used for food preparation, rinse surfaces thoroughly with potable water. This product must not be used to clean the following surfaces: utensils, glassware, dishes or interior surfaces of processing equipment.

#### **TO DISINFECT FOOD-PROCESSING AND TOBACCO**

**PREMISES:** Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, apply 2 oz. of this product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a brush, mop, cloth, sponge or hand pump trigger spray device so as to wet all surfaces thoroughly. For sprayer application, use a coarse spray device. Allow surface to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

#### **TO DISINFECT FOOD SERVICE ESTABLISHMENT**

**FOOD CONTACT SURFACES:** For countertops, exterior surfaces of appliances and tables: Before using this product, food products and packaging materials must be removed from area or carefully protected. Add 2 oz. per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a brush, mop, cloth, sponge or hand pump trigger spray device so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow surface to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. Replace solution at least daily or when solution becomes visibly dirty. This product is not for use on dishes, glassware, eating utensils or interior surfaces of processing equipment.

#### **FOR USE ON NON-FOOD CONTACT SURFACES AS A GENERAL DISINFECTANT IN THE BREWERY INDUSTRY:**

Use 2 ounces of this product per gallon of water (or equivalent use dilution). Follow the general disinfectant directions above.

#### **DIRECTIONS FOR FOGGING IN DAIRIES, BEVERAGE AND FOOD PROCESSING PLANTS:**

Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a product solution containing 3 ounces of product to 1 gallon of water (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water. Allow food contact surfaces to drain thoroughly before operations are resumed.

**Note:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the build-



ing must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**

**DISINFECTING POTATO STORAGE AREA AND EQUIPMENT:** Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow general disinfecting directions as outlined in that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

**FOR CONTROL OF THE *DROSOPHILA* SPP. AND PHORIDAE FAMILY OF FLIES ON NON-FOOD CONTACT SURFACES:**

To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of 2 ounces of this product per gallon of water (or equivalent use dilution) to surfaces and locations where flies breed. Spray surfaces thoroughly or apply by pouring, mopping or sponging onto the surface. Repeat application 1-2 times per week or as needed. Do not contaminate food and food packaging.

**FOR CONTROL OF SMALL FLIES IN DRAINS:** For control of small flies: *Drosophila* spp. and the Phoridae family. Spray or pour solution of 2 ounces per gallon of water (or equivalent use dilution) into drain during time of lowest level of drain use. Add 14 ounces of solution daily to each drain to maintain fly control. Apply around the edge of the drain and coat all sides of inside of drain.

**SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN FOOD PROCESSING FACILITIES**

**SHOE / BOOT BATH SANITIZER DIRECTIONS:** To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a 1 ounce of this product per 2.75 gallons of water (or equivalent use dilution) use solution for 3 minutes prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears visibly dirty.

**SHOE FOAM DIRECTIONS:** To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 1 ounce per 2.75 gallons of water (or equivalent use dilution) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacturer

of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 3 minutes prior to entering area. Foam area must be washed and replaced at least daily or when it appears visibly dirty.

**ENTRYWAY SANITIZING SYSTEMS:** To prevent cross contamination from area to area, set the system to deliver 1 ounce per 2.75 gallons of water (or equivalent use dilution) of sanitizing solution. The spray or foam must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

**MUSHROOM FARM INDUSTRY USE DIRECTIONS**

At 2 ounces per gallon use-level, this product is effective against:

*Dactylium dendroides* – ATCC 6676

**Site Preparation:** The first step in any on-going sanitation program should be the removal of gross contamination and debris. This can be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

**Disinfection:** Use 2 ounces of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces must be allowed to remain wet for 10 minutes. Let air dry. For heavily soiled areas, pre-clean first. Prepare a fresh solution for each use.

**For Heavy Duty Cleaning:** When greater cleaning is desired, use 4 ounces of this product per gallon of water (or equivalent dilution). Heavily soiled areas will require repeated cleaning before treatment.

**DO NOT APPLY TO THE MUSHROOM CROP, COMPOST OR CASING.** Rinse treated surfaces with potable water before they contact the crop, compost or casing.

**ANIMAL PREMISES**

**ANIMAL PREMISE VIRUCIDAL\* PERFORMANCE:** At 1 1/4 oz. per gallon of water, treated surfaces must remain wet for ten minutes. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes visibly dirty.

This product was evaluated and found to be effective in the presence of 5% blood serum at 1 1/4 oz. per gallon of water against the following viruses on hard, non-porous surfaces:

Avian influenza A/Turkey/Wisconsin virus – ATCC VR-798  
Canine Distemper virus  
Infectious Bovine Rhinotracheitis virus – IBR – ATCC VR188  
Newcastle disease virus – ATCC VR109  
Porcine Respiratory & Reproductive virus – PRRSV  
Porcine Rotavirus  
Pseudorabies virus – ATCC VR135  
Transmissible Gastroenteritis virus – TGE

At 2 ounces per gallon of water use level, with treated surfaces remaining wet for 10 minutes, this product was evaluated and found to be effective against the following viruses on hard, non-porous surfaces:

Avian influenza A virus – H5N1

Canine Coronavirus

**SITE PREPARATION:** The first step in any on-going sanitation program must be the removal of gross contamination and debris. This can be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly, clean all surfaces with soap or detergent and rinse with water.

**APPLICATION:** Remove all animals and feeds from areas to be treated, vehicles and enclosures. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with disinfecting or Virucidal\* solution at 1 1/4 oz per gallon of water for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

**VETERINARY CLINICS / ANIMAL LIFE SCIENCE LABORATORY / ANIMAL CARE FACILITIES / ANIMAL RESEARCH CENTERS/ANIMAL LABORATORY / ANIMAL QUARANTINE AREAS / ANIMAL BREEDING FACILITIES / ZOOS / PET SHOP / ANIMAL HUSBANDRY / KENNELS / BREEDING AND GROOMING ESTABLISHMENT / TACK SHOPS DISINFECTION**

**DIRECTIONS:** For cleaning and disinfecting the following hard, non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from areas to be treated, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 oz. per gallon of water for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers used in removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been ab-

sorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers, and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

At 2 ounces per gallon of water in the presence of 400 ppm of hardness for a 10-minute contact time, this product was found to be effective against Hantavirus.

### **SPECIAL INSTRUCTIONS FOR CLEANING AND DISINFECTING AREAS WHICH MAY BE INFESTED WITH HANTAVIRUS**

Infection with Hantavirus occurs by inhalation of infectious materials. CDC recommends that persons involved with cleanup wear coveralls, disposable, if possible, rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air (HEPA) filter or a powered air-purifying respirator (PAPR) with HEPA filter. Disinfect Personal Protective gear upon removal at the end of the day. If the coveralls are not disposable, they must be laundered on site. If no laundry facilities are available, the coveralls must be immersed in liquid disinfectant until they can be washed.

All potential infective waste material, including respirator filter, from cleanup operations that cannot be burned or deep buried on site must be double bagged in appropriate plastic bags. The bagged material must then be labeled as infectious, if it is to be transported, and disposed of in accordance with local requirements for infectious waste.

Rodent droppings and visible dust can be reservoirs for Hantavirus. If you are cleaning out a building that has been closed up, such as a cabin, shed or garage:

- a. Air out the building for at least 30 minutes by opening windows and doors.
- b. Leave the building while it is airing out.
- c. Do not vacuum, sweep or dust. This can spread the virus through the air.
- d. Thoroughly wet the contaminated areas with 2 ounces per gallon of water and allow solution to stand undisturbed for 10 minutes.
- e. Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
- f. Treat the surface again following the label directions and allow solution to stand undisturbed for 10 minutes.

**RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS:** Cover or remove all food and packaging materials. Remove all gross soils. Disinfect equipment, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Saturate all surfaces with the use solution of 1 1/4 oz. per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

## **RENDERING PLANT / DRESSING PLANT DISINFECTANT / FUNGICIDE / VIRUCIDE\* DIRECTIONS:**

Cover or remove all food packaging material before disinfection. Remove gross soils. Apply to equipment, walls and floors in poultry and animal dressing plants with a solution of 2 oz. per gallon of water. Surfaces must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Thoroughly rinse all wetted and cleaned surfaces which contact food with potable water before reuse.

**TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION** *use on rocks and driftwood not allowed in California:* Animals frequently defecate on hot rocks and other hard, non-porous cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly this product can eliminate these high bacterial/ammonia levels in your cage and on your cage furniture items.

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal\* solution of 1 1/4 oz. per gallon of water for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.
4. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning to terrarium.
5. Do not return animals to the habitat until it is dry and ventilated.
6. Thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.
7. Clean terrarium at least once weekly or more as needed.

**Note:** Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately. Substrates for desert terrariums, i.e., gravel, must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists.

## **FARM PREMISE DISINFECTION DIRECTIONS**

**FARM PREMISE DISINFECTION DIRECTIONS:** Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from areas to be treated, ve-

hicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply a use solution of 2 oz. per gallon of water and allow surface to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

## **VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS:**

Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles and other environmental surfaces can be required. Empty all troughs, racks, and other feeding and watering appliances. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with disinfecting or Virucidal\* solution at 2 oz. per gallon of water and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

## **POULTRY AND SWINE PREMISE SANITATION**

**Site Preparation:** The first step in any on-going sanitation program should be the removal of gross contamination and debris. This can be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, thoroughly clean all surfaces with soap or detergent and rinse with water.

## **APPLICATION AND USE DILUTION ON POULTRY AND SWINE PREMISES:**

Remove all animals and feeds from areas to be treated, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water. Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment

used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

**DISINFECTION / FUNGICIDE / VIRUCIDE\* OF POULTRY / TURKEY EQUIPMENT, SWINE QUARTERS, LIVESTOCK FARMS, EQUINE QUARTERS, ANIMAL QUARTERS AND KENNELS DIRECTIONS:** Prior to disinfection, remove all poultry, other animals and their feed from areas to be treated, vehicles and enclosures. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water (or equivalent use dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings, coops and other closed spaces. Do not house poultry or other animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent, then rinsed with potable water before reuse.

**HATCHERIES:** Use 2 oz. per gallon of water to treat the following hard, non-porous surfaces: hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, trash containers, carts, sexing tables, delivery trucks, vans and other hard non-porous surfaces. Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more. Rinse surfaces with potable water before reuse. Allow surfaces to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray device. Use 2 oz. per gallon of water to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more and allow to air dry.

**SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A H5N1 VIRUS:** Remove all poultry and feeds from areas to be treated, trucks, coops, and crates. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with the disinfecting solution of 2 oz. per gallon of water for a period of 10 minutes. Immerse all halters,

ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### **SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN ANIMAL PREMISES**

**TO SANITIZE HOOF TRIMMING EQUIPMENT:** Prior to application, pre-clean hoof trimming equipment and utensils before and after use on each animal with detergent and warm water or compatible cleaner to remove soil using a pre-scrape, pre-flush, or when necessary, pre-soak followed by a potable water rinse. To sanitize, prepare a 1 oz. of this product per 2 3/4 gallons of water (or equivalent use dilution) solution. Apply to pre-cleaned hard surfaces using a brush, cloth, mop, sponge or mechanical spray device or by immersion to thoroughly wet surfaces. Allow surfaces to remain wet for at least 3 minutes followed by adequate draining or air drying. Prepare fresh solution at least daily or when solution becomes visibly dirty.

**SANITIZING HATCHERY ROOMS USING FOGGING DEVICES:** Remove all animals and feed from areas to be treated, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 2 gallons of this product to 2 1/2 gallons water. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. Vacate the room of all personnel during fogging for a minimum of 2 hours of actual fogging and a minimum of 4 air exchanges per hour in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

**SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES:** Mix 24 ounces of this product to 122 ounces of water (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatchers. Do not allow people to contact or breathe this fog. It is acceptable to fog setters and hatchers with 2 ounces per gallon of water solution of this product (or equivalent use dilution) on an hourly or

every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs.

**Note:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**

## **BARBER/SALON**

### **DISINFECTION / FUNGICIDE / VIRUCIDE\* FOR BARBER / SALON TOOLS DIRECTIONS:**

Immerse pre-cleaned barber/salon tools such as combs, brushes, plastic rollers, razors, clipper and trimmer blades, tweezers, manicure/pedicure tools, clippers, scissors and other hard, non-porous salon instruments and tools in a 2 oz. per gallon of water solution. Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes visibly dirty.

**DISINFECTING / FUNGICIDE / VIRUCIDE\* GROOMING CLIPPERS:** Remove hair, dandruff and dust particles prior to disinfecting the blades. Turn the clipper off occasionally during use and spray between the teeth of blades with a solution of 2 oz. per gallon of water. Allow surface to remain wet for at least 10 minutes. Rinse surfaces thoroughly. Then wipe dry with a clean soft cloth.

**CLEANING HAIR CLIPPERS AND ELECTRIC SHEARS:** While clipper/shear is running, hold in the downward position and spray 1 1/4 oz. per gallon of water solution of this product directly onto the blades two or three times to thoroughly wet the blades. Do not spray on the clipper case or drip into clipper housing. Turn off clipper/shear. Allow surface to remain wet for at least 10 minutes. Rinse surfaces thoroughly. Then wipe dry with a clean soft cloth. Lubricate as per clipper/shear manufacturer's instructions.

**CLEANING BARBER / SALON SHEARS AND OTHER IMPLEMENTS:** Spray shear/implement until thoroughly wet. Wipe away visible debris using a soft bristle brush or cloth. Turn off clipper/shear. Immerse pre-cleaned shear/implement into a container of a 1 1/4 oz. per gallon of water solution of this product for at least 10

minutes. Rinse surfaces thoroughly. Remove shear/implement and wipe dry. Use fresh solution at least daily or when immersion tank solution becomes visibly dirty.

**Note:** Plastic instruments can remain immersed until ready to use. Stainless steel shears and other metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments.

**DISINFECTION / FUNGICIDE / VIRUCIDE\* OF HARD, NON-POROUS SURFACES IN FOOTBATHS:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of 2 oz. per gallon of water to exposed surfaces with a brush, cloth, mop, sponge or mechanical spray device. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray applications, use a coarse pump or trigger spray device. Do not breathe spray. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

## **RESTROOM/BATHROOM**

### **NON-ACID TOILET BOWL, URINAL & BATHROOM DISINFECTANT / CLEANER DIRECTIONS**

**FROM CONCENTRATE:** Remove gross filth prior to disinfection. Add 1 1/4 oz. of this product directly into the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a brush, cloth, mop, sponge or mechanical spray device. Repeat and allow solution to stand for 10 minutes and flush.

**FROM USE SOLUTION:** Pre-clean surface. Empty water out of toilet bowl or urinal and apply a 2 oz. per gallon use solution to exposed surfaces including under the rim with a brush, cloth, mop, sponge or mechanical spray device. For sprayer application, use a coarse pump or trigger spray device. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush. Refill toilet bowl or urinal with water.

**FOR HEAVY DUTY CLEANING:** Pre-clean surface. Empty toilet bowl or urinal of water and apply 8-12 ounces of use solution to exposed surfaces including under the rim with a brush, cloth, mop, sponge or mechanical spray device. Brush or swab thoroughly and allow solution to soak to aid in soil removal. For sprayer application, use a coarse spray device and swab all areas after spraying. Refill toilet bowl or urinal with water.

**FOR USE TO CLEAN AND DISINFECT SHOWER ROOMS, LOCKER ROOMS AND OTHER LARGE OPEN AREAS WITH FLOOR DRAINS:**

1. Pre-clean heavily soiled areas.
2. Apply use solution of 1 1/4 oz. of this product with one gallon of water to floors, walls and ceilings, making sure not to over spray. To disinfect, all surfaces must remain wet for 10 minutes. **Special**

**instructions for foam guns:** Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. **Note:** See foam gun instructions for more information. Make sure the setting is set for a 1:103 dilution. Once in place, squeeze the handle to disperse foam solution. To disinfect, all surfaces must remain wet for 10 minutes. *Foam guns not for use in California.*

3. Scrub surface using deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

**Note:** Rinsing is not necessary unless floors are to be coated with finish or restorer. All food contact surfaces, such as appliances and kitchen countertops, must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

## FUNGICIDAL / MOLD & MILDEW

**FUNGICIDAL ACTIVITY:** At 2 ounces per gallon use-level, (or equivalent use dilution) this product is effective against *Trichophyton mentagrophytes* – athlete's foot fungus, (a cause of Ringworm) and *Candida albicans* on inanimate, hard, non-porous surfaces in the presence of 5% blood serum and 400 ppm water hardness as CaCO<sub>3</sub> in locker rooms, dressing rooms, shower and bath areas, and exercise facilities. Pre-clean all surfaces prior to using this product. Treated surface must remain wet for 10 minutes. Allow solution to air dry on surface and repeat treatment every seven days or when new growth appears.

**MOLD AND MILDEW CONTROL DIRECTIONS:** This product controls the growth of mold and mildew, *Aspergillus niger* and their odors on hard, non-porous surfaces. To control the growth of mold and mildew and their odors on hard, non-porous surfaces, apply use solution of 1 1/4 oz. of this product per one gallon of water. Thoroughly wet all treated surfaces completely. Allow surface to remain wet for 10 minutes. Let surface air dry. Repeat application weekly or when growth or odor reappears.

**TO CONTROL THE GROWTH OF MOLD AND MILDEW ON LARGE INFLATABLE NON-POROUS PLASTIC AND RUBBER STRUCTURES** (animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1 1/4 oz. of this product per one gallon of water for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**TO CONTROL THE GROWTH OF MOLD AND MILDEW ON NON-POROUS ATHLETIC EQUIPMENT:** For use on wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles. Thoroughly clean all surfaces with soap or detergent and rinse with

water. Saturate surfaces with a use solution of 1 1/4 oz. of this product per one gallon of water for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**HUMIDIFIER DIRECTIONS:** Formulated for use in portable humidifiers. Thoroughly clean the hard, non-porous surfaces of the water tank and filters, before each heating season, or sooner if necessary. Add 2 oz. of this product per gallon of refill water. When you refill the tank, add 2 ounces of this product for every gallon of water added. Not for use in heat or atomizing type humidifiers.

## DEODORIZATION

**GENERAL DEODORIZATION:** To deodorize, add 1 1/4 ounce of this product to 1 gallon of water (or equivalent use dilution). Excess liquid must be wiped up or allowed to air dry.

**CLEANING / DEODORIZING DIRECTIONS:** Add 1 1/4 ounce per gallon of water (or equivalent use dilution) to clean and deodorize windows, mirrors and other surfaces. Apply solution with a brush, mop, cloth, sponge or mechanical spray device so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray. Allow surface to air dry or wipe up excess liquid.

**FOR DEODORIZING GARBAGE CANS, GARBAGE TRUCKS, INDUSTRIAL WASTE RECEPTACLES AND GARBAGE HANDLING EQUIPMENT:** It is especially important to pre-clean for the product to perform properly. Use 1 1/4 ounce per gallon (or equivalent use dilution) of this product or other suitable detergent system for pre-cleaning step. Then, apply a wetting concentration of 6 ounces of this product per gallon of water (or equivalent use dilution).

**FOR DEODORIZING SEPTIC STORAGE TANKS:** Pre-clean heavily soiled areas. When tanks are empty, pour 1 1/4 oz. per gallon of water (or equivalent use dilution) into septic storage tank on recreational vehicles, campers and boats to control odors. As tank fills with sewage and the vehicle is moving, this solution will mix and provide an adequate deodorizing solution for this use. This product is to be used on gray and black water tanks only. Check with local, state, or federal authorities before disposing of sewage in accordance to federal, state and local regulations for waste disposal.

**AIR FRESHENER / AUTOMOTIVE USES:** Effective on smoking and food odors (garlic, fish, onions, etc.), automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. A solution of 1 1/4 oz. per gallon of water (or equivalent use dilution) will effectively neutralize odors. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from tobacco, food, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Allow to air dry.

**RV HOLDING TANKS / RECREATIONAL VEHICLES:**

For toilet waste and holding tanks, cover bottom of holding tank with water and 1 1/4 to 2 ounces per gallon of water to deodorize. If odors return before time to empty, add 1 1/4 to 2 ounces to the tank. For kitchen waste, add 1 1/4 to 2 ounces to gray water tank as needed to control malodors created by dirty dishwasher.

**FOR ODORS CAUSED BY DOGS, CATS AND OTHER DOMESTIC ANIMALS:**

Use on rugs, floors, walls, tile, cages, crates, mats, litter boxes, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "General Deodorization".

**GLASS CLEANING/DEODORIZING DIRECTIONS:**

Use 1 1/4 ounce per gallon solution (or equivalent use dilution) to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

**WATERBED CONDITIONER:** When used as a waterbed conditioner, this product eliminates the odor caused by bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals.

If bed has not been treated properly, drain bed completely. Add 15 gallons of water, mix vigorously, drain bed again. Fill bed with water and follow dosage directions.

**Dosage:** To eliminate the odor caused by bacteria, add 10 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 10 fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

**WATER/SMOKE DAMAGE RESTORATION**

Effective against odor caused by water and/or smoke for home, institutional, industrial and hospital use. This product is particularly suitable for use in water damage restoration situations against odor caused by water on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, frame lumber, tackless strip and paneling. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

**SEWER BACKUP & RIVER FLOODING:** To rid affected area of odors caused by sewer backup and river flooding, dilute 2 to 4 ounces of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

**CARPETS, CARPET CUSHIONS AND OTHER POROUS MATERIALS SUCH AS SUB FLOORS, DRY-WALL, TRIM AND FRAME LUMBER, TACKLESS STRIP AND PANELING:**

Effective against odor caused by water damage. For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2 to 4 ounces of the product per gallon

of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

**SPECIAL INSTRUCTIONS FOR CLEANING CARPET AGAINST ODORS CAUSED BY BACTERIA:**

This product can be used to deodorize carpets in industrial and institutional, commercial and residential areas such as homes, motel & hotel chains, nursing homes, schools and hospitals. For use on wet, cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for colorfastness.

**For Portable Extraction Units:** Mix 2 ounces of this product per gallon of water (or equivalent use dilution).

**For Truck Mounted Extraction Machines:** Mix 24 ounces of the product per gallon of water and meter at 4 gallons per hour.

**For Rotary Floor Machines:** Mix 4 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

**CARPET CLEANING / DEODORIZER AGAINST ODOR CAUSED BY BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE:**

This product cleans and deodorizes the carpet by eliminating odors caused by bacteria. It can be used in industrial and institutional, commercial and residential areas such as homes, motels, hotel chains, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 2 ounces of product per gallon of water (or equivalent use dilution). Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 16 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use on washable synthetic fibers. Do not use on wool. Test colorfastness of carpet before use. Apply diluted product to a small, concealed spot, then rub with a clean white cloth. If color changes or transfers to the cloth, a water-based product must not be used.

After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse.

**Note:** This product must not be mixed with other cleaning products.

## OTHER USES

### **DISINFECTION / FUNGICIDE/VIRUCIDE\* OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:**

After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 oz. per gallon of water. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

### **CLEANSING OF BODY SURFACES AND BODY ORIFICES OF HUMAN REMAINS:**

To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, and to remove and reduce surface contamination, apply 2 ounces of this product to 1 gallon of water to the surfaces and body openings, natural or artificial. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Allow a 10-minute contact time for optimal results. Prepare a fresh solution for application of each remains.

**FOR USE ON FINISHED FLOORS:** To limit gloss reduction, use this product at 1 1/4 oz per gallon of water use dilution (or equivalent use dilution). Apply with a damp mop or auto scrubber. Allow to air dry.

**COMMERCIAL FLORIST USE DIRECTIONS:** To clean, disinfect and deodorize hard, non-porous surfaces in one step, prepare use solution by mixing 2 oz. per gallon of water. For heavy-duty use, mix 8 ounces per gallon of water.

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard, non-porous surfaces, thoroughly wetting surfaces as required, with a cloth, mop, brush, sponge or mechanical spray device.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse pump or trigger spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray.

Treated surfaces must remain wet for 10 minutes. Allow to air dry.

Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

### **CITRUS CANKER CONTROL AND CONTROL OF BACTERIA SPOT OF TOMATOES:**

*Not applicable in California:* For prevention of Citrus Canker and Bacterial Spot of Tomatoes Diseases through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker) and *Xanthomonas campestris* pv. *vesicatoria* (bacteria spot of tomatoes) at 2060 ppm ac-

tive quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution ratio of 1:27. Treatment can be applied to trucks, attached trailers, field harvesting equipment, including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using maximum rate 2060 ppm quat. For sprayer applications use a coarse spray device. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing must be either thoroughly rinsed or laundered before reuse. Footwear must be rinsed before reuse.

## DIRECTIONS FOR HOUSEHOLD USE

### **KITCHEN/BATHROOM/HOUSEHOLD CLEANING:**

Apply 2 oz. per gallon of water solution with a brush, cloth, sponge, mop or directly on surface with a mechanical spray device. If a mechanical spray is used spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Wipe the soiled area clean. This product is not to be used on dishware, glasses or eating utensils.

**DISINFECT/DEODORIZE:** To disinfect hard, non-porous surfaces such as floors, walls, counters, sinks, tubs, toilets, glazed tile, exterior surfaces of appliances, refrigerators or freezers, microwave exteriors, stove tops and hoods, tables, garbage pails, and faucets apply 2 oz. per gallon of water with cloth, sponge, mop or mechanical spray device. If a mechanical spray is used, spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Treated surface must remain wet for 10 minutes before wiping. For heavily soiled areas a pre-cleaning step is required. The pre-cleaning step must be done according to the instructions under Kitchen / Bathroom / Household Cleaning. Rinse with potable water after use on surfaces that come in contact with food.

## SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

### **SANITIZATION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:**

To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add 1 oz per 2 3/4 gallons of water (or equivalent use dilution) solution in the unit at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 3 minutes. After the unit has been thoroughly sanitized, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units. The unit is ready for reuse.

## SANITIZATION OF EXTERIOR HOUSEHOLD SURFACES DIRECTIONS



**Preparation of Use Solution:** Add 1 oz per 2 3/4 gallons of water (or equivalent use dilution) to sanitize hard, non-porous exterior surfaces such as vinyl, plastic, sealed concrete, painted or sealed woodwork, and sealed stucco. Surfaces to be treated include house siding, decks, patios, walkways and driveways.

**Application:** Preclean surfaces. Apply solution with a brush, mop, cloth, sponge, mechanical spray device, or with a low-pressure (less than 60 psi) airless sprayer so as to wet all surfaces thoroughly. Treated surfaces must remain wet for 3 minutes. For sprayer applications, use a coarse spray device. Wearing suitable respiratory protective equipment and protective eyewear to control exposure to spray, pressure wash surfaces to thoroughly clean all treated areas using a high-pressure spray. Do not breathe spray. One-half gallon of diluted product will treat 200-300 sq ft of surface. User must wear protective eyewear as well as respiratory protective equipment.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Container Handling Disposal:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides. Triple rinse (or equivalent). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

**Residue Removal Instructions:** Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.



**Nisus Corporation**  
100 Nisus Drive • Rockford, TN 37853 USA  
800-264-0870

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## SAFETY DATA SHEET



Health Emergencies: INFOTRAC® (800) 535-5053

### 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** Nisus DSV™

**Recommended use:** Disinfectant, virucide, sanitizer.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 01/12/16

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 1 |
| Serious eye damage/eye irritation | Category 1 |

**GHS Label Elements:**



**Signal Word:** Danger

**Statements of Hazard**

Causes severe burns and eye damage.

**Precautionary Statements**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                                                                   | CAS No.        | Amount |
|-----------------------------------------------------------------------------|----------------|--------|
| Alkyl (C <sub>12</sub> -C <sub>16</sub> ) dimethyl benzyl ammonium chloride | CAS 68424-85-1 | 2.200% |
| Octyl decyl dimethyl ammonium chloride                                      | CAS 32426-11-2 | 1.650% |
| Dioctyl dimethyl ammonium chloride                                          | CAS 5538-94-3  | 0.825% |
| Didecyl dimethyl ammonium chloride                                          | CAS 7173-51-5  | 0.825% |
| Ethanol                                                                     | CAS 64-17-5    | <1%    |

### 4. FIRST AID MEASURES

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**Most important Symptoms:** Causes severe skin burns and eye damage.

**Indication of immediate medical attention/special treatment: Note to Physician:** Treat symptomatically

### 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Do not use water jet.

**Specific hazards arising from the chemical:** Not determined.

**Hazardous Combustion Products:** Toxic gases may be formed by fire.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment:** Isolate hazard area and restrict access. Eliminate all ignition sources. Ventilate affected area. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and Materials for Containment and Cleaning Up:** Prevent further leakage or spillage if safe to do so. A vapor suppressing foam may be used to reduce vapors. Spill area may be slippery. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dispose of contents/container to an approved waste disposal plant.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Strong oxidizers. Reducing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

| Chemical Name       | ACGIH TLV         | OSHA PEL                                                                                                               | NIOSH IDLH                                                              |
|---------------------|-------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Proprietary Alcohol | STEL:<br>1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> (vacated)<br>TWA:<br>1000 ppm (vacated)<br>TWA:<br>1900 mg/m <sup>3</sup> | IDLH:<br>3300 ppm<br>TWA:<br>1000 ppm<br>TWA:<br>1900 mg/m <sup>3</sup> |

**Engineering Controls:** Use explosion proof equipment. Mechanical Exhaust. Showers. Eyewash stations.

**Eye/Face Protection:** Splash proof chemical safety goggles. Face shield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection:** Wear rubber or neoprene gloves. Impervious apron. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection:** No protective equipment is needed under normal use conditions. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Appearance:** Colorless to light straw liquid

**Odor:** Benzaldehyde

**Odor Threshold:** Not determined

**pH:** 12.4

**Melting Point/Freezing Point:** Not determined

**Boiling Point/Boiling Range:** Not determined

**Flash Point:** >94°C / 201°F

**Evaporation Rate:** Not determined

**Flammability (Solid, Gas):** Not determined

**Upper Flammability Limits:** Not determined

**Lower Flammability Limit:** Not determined

**Vapor Pressure:** Not determined

**Vapor Density:** Not determined

**Specific Gravity:** Not determined

**Water Solubility:** Soluble in water

**Solubility in other solvents:** Not determined

**Partition Coefficient:** Not determined

**Auto-ignition Temperature:** Not determined

**Decomposition Temperature:** Not determined

**Kinematic Viscosity:** Not determined

**Dynamic Viscosity:** Not determined

**Explosive Properties:** Not determined

**Oxidizing Properties:** Not determined

**Density:** 8.4 lbs/gal (Water=1)

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** None under normal processing.

Hazardous polymerization does not occur.

**Conditions to Avoid:** Heat, flames and sparks.

**Incompatible Materials:** Strong oxidizers. Reducing agents.

**Hazardous Decomposition Products:** Hydrogen chloride. Carbon oxides. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Eye Contact:** Causes severe eye damage.

**Skin Contact:** Causes severe skin burns.

**Inhalation:** Do not inhale.

**Ingestion:** Do not ingest.

### Component information:

| Chemical Name        | Oral LD <sub>50</sub> | Dermal LD <sub>50</sub> | Inhalation LC <sub>50</sub> |
|----------------------|-----------------------|-------------------------|-----------------------------|
| Proprietary Chloride | = 426 mg/kg ( Rat )   | -                       | -                           |
| Proprietary Alcohol  | = 7060 mg/kg ( Rat )  | -                       | = 124.7 mg/L ( Rat ) 4h     |
| Proprietary Chloride | = 84 mg/kg ( Rat )    | -                       | -                           |

### Information on physical, chemical and toxicological effects

**Symptoms:** Please see Section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity:** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

| Chemical Name       | ACGIH | IARC    | NTP   | OSHA |
|---------------------|-------|---------|-------|------|
| Proprietary Alcohol | A3    | Group 1 | Known | X    |

### Legend:

ACGIH (American Conference of Government Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity: Not determined

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Chemical Name:** Proprietary Alcohol

**Fish:** 12.0 - 16.0: 96 h *Oncorhynchus mykiss* mL/L LC<sub>50</sub> static 13400 - 15100: 96 h *Pimephales promelas* mg/L LC<sub>50</sub> flow-through 100: 96 h *Pimephales promelas* mg/L LC<sub>50</sub> static

**Toxicity to microorganisms:** EC<sub>50</sub> = 34634 mg/L 30 min, EC<sub>50</sub> = 35470 mg/L 5 min

**Crustacea:** 9268 - 14221: 48 h *Daphnia magna* mg/L LC<sub>50</sub> 2: 48 h *Daphnia magna* mg/L EC<sub>50</sub> Static 10800: 24 h *Daphnia magna* mg/L EC<sub>50</sub>

**Persistence and Degradability:** Not determined.

**Bioaccumulative:** Not determined.

**Mobility:** Not determined.

| Chemical Name       | Partition Coefficient |
|---------------------|-----------------------|
| Proprietary Alcohol | -0.32                 |

**Other Adverse Effects:** Not determined.

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Disposal of Wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

| Chemical Name       | California Hazardous Waste Status |
|---------------------|-----------------------------------|
| Proprietary Alcohol | Toxic, ignitable                  |

## 14. TRANSPORTATION INFORMATION

**Note:** Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

**DOT:** Not regulated.

**IATA:** Not regulated.

**IMOG:** Not regulated.

## 15. REGULATORY INFORMATION

### International Inventories:

| Chemical Name | Proprietary Chloride | Proprietary Chloride | Proprietary Alcohol | Proprietary Chloride |
|---------------|----------------------|----------------------|---------------------|----------------------|
| TSCA          | Present              | Present              | Present             | Present              |
| DSL           | X                    | X                    | X                   | X                    |
| NDSL          |                      |                      |                     |                      |
| EINECS        | Present              | Present              | Present             | Present              |
| ELINCS        |                      |                      |                     |                      |
| ENCS          | Present              |                      | Present             | Present              |
| IECSC         | X                    | X                    | X                   | X                    |
| KECL          | Present              | Present              | Present             | Present              |
| PICCS         | X                    | X                    | X                   | X                    |
| AICS          | X                    |                      | X                   | X                    |

**Legend:**

**TSCS** – United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** – Canadian Domestic substances List/Non-Domestic Substances List  
**EINECS/ELINCS** – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** – Japan Existing and New Chemical Substances  
**IECSC** – China Inventory of Existing Chemical Substances  
**KECL** – Korean Existing and Evaluated Chemical Substances  
**PICCS** – Philippines Inventory of Chemicals and Chemical Substances  
**AICS** – Australian Inventory of Chemical Substances

**US Federal Regulations**

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act):** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations**

**California Proposition 65:** Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

| Chemical Name       | California Proposition 65 |
|---------------------|---------------------------|
| Proprietary Alcohol | Carcinogen Developmental  |

**U.S. State Right-to-Know Regulations**

| Chemical Name       | New Jersey | Massachusetts | Pennsylvania |
|---------------------|------------|---------------|--------------|
| Proprietary Alcohol | X          | X             | X            |

**EPA Pesticide Registration Number:** EPA Reg No 10324-80-64405

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Signal Word: Danger

Hazardous to humans and domestic animals. Keep out of reach of children.

**Difference between SDS and EPA pesticide label**

|                                   | EPA    | OSHA                      |
|-----------------------------------|--------|---------------------------|
| Signal Word                       | Danger | Danger                    |
| Skin corrosion/irritation         | N/A    | Causes severe skin burns  |
| Serious eye damage/eye irritation | N/A    | Causes serious eye damage |

**16. OTHER INFORMATION****NFPA Rating:**

Health = 3      Flammability = 0      Instability = 0  
 Special Hazards = Not determined

**HMIS Rating:**

Health = 3      Flammability = 0      Physical Hazard = 0  
 Personal Protection = B

**SDS Revision History:** 11/01/14: New SDS  
 01/12/16: Revised

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## GRANULAR INSECTICIDE

**KILLS:** Ants, Centipedes, Cockroaches, Crickets, Fleas and Other Listed Insect Pests

**FOR USE IN:** Landscaped areas and perimeters around residential, institutional, public, commercial and industrial buildings. Excellent for use around sensitive facilities (i.e. schools, government buildings, organic facilities, etc.)

## SPECIMEN LABEL

### ACTIVE INGREDIENTS:

Eugenol ..... 2.9%  
Thyme Oil ..... 0.6%

### OTHER INGREDIENTS:

Corn Cob, Wintergreen Oil ..... 96.5%

**TOTAL:** ..... 100.0%

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

**PRECAUCION AL USUARIO:** Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. **(TO THE USER:** If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

FIFRA 25(b) Exemption

**Octopamine Blocker TECHNOLOGY**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with eyes, skin and clothing.

| FIRST AID                            |                                                                                                                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If In Eyes                           | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician if irritation persists. |
| If On Skin                           | Wash exposed area thoroughly with soap and water.                                                                                                                                                         |
| If Inhaled                           | Move exposed person(s) to fresh air. If breathing problems persist, get medical attention.                                                                                                                |
| If Ingested                          | Rinse mouth out with water. Do not induce vomiting. Obtain medical attention if feeling sick or nauseous.                                                                                                 |
| Seek medical attention if necessary. |                                                                                                                                                                                                           |

### DIRECTIONS FOR USE

**READ ENTIRE LABEL — USE IN ACCORDANCE WITH LABEL INSTRUCTIONS**

This product is intended for outdoor applications using a hand-operated spreader or equivalent equipment such as shaker cans.

**KILLS:** Ants, bermudagrass mites, centipedes, chiggers, chinch bugs, clover mites, cockroaches, crickets, earwigs, fall armyworms, fleas, leafhoppers, millipedes, sowbugs/pillbugs, and other insect pests in landscape, turf and perimeters around residential and commercial areas.

**FOR EXTERIOR PERIMETER TREATMENTS:** Apply uniformly to ground area 5 to 10 feet wide around and adjacent to structure. Apply 2 to 5 lbs per 1,000 sq ft (rates depend on severity of infestation). Repeat as necessary.

**FOR ANT MOUNDS/NESTS:** Sprinkle 1 to 2 teaspoons over the nest. For red imported fire ant mounds, use up to ½ cup (8 tablespoons) over each mound and up to 2 feet around each mound.

**FOR TURF/LANDSCAPE TREATMENTS:** Apply at a rate of 3 to 5 pounds per 1,000 square feet. For best results, water grass with ⅛ to ¼ inch of water but stop watering before puddling occurs. Repeat as necessary.

**KEEP ALL INSECTICIDES OUT OF REACH OF CHILDREN**

## STORAGE & DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**STORAGE:** Store only in original container in a dry place inaccessible to children and pets and away from food or feed.

**DISPOSAL:** Discard empty container in trash or offer for recycling if available.

**FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE CALL:**  
CHEMTREC 1-800-424-9300

**FOR MEDICAL EMERGENCIES ONLY CALL:** 1-800-248-7763

## LIMITATION OF LIABILITY

To the fullest extent permitted by law, the manufacturer disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product. Buyer assumes all responsibility for safety and use not in accordance with label, directions and precautionary statements.

Central Garden & Pet Company represents that this product is a Minimum-Risk pest control product, and qualifies for exemption from EPA registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).



**Central Garden & Pet Company**, 1501 East Woodfield Road, 200W, Schaumburg, Illinois 60173

**NOTE:** This specimen label is for informational purposes only. All uses may not be approved in all states. See product labeling for use directions.

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# Essentria G Granular Insecticide

## Safety Data Sheet

Date of issue: 02/18/2015

Revision date: 11/12/2018

Supersedes: 11/11/2015

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Essentria G Granular Insecticide  
Synonyms : 100208740; 100208940; FIFRA 25(b) exempt

#### 1.2. Recommended use and restrictions on use

Recommended use : Pesticide.  
Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin and clothing.

#### 1.3. Supplier

Envincio, LLC  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173 - United States

#### 1.4. Emergency telephone number

Emergency number : 1-800-248-7763  
1-800-424-9300 - CHEMTREC  
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin sensitization, Category 1 May cause an allergic skin reaction

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : May cause an allergic skin reaction  
Precautionary statements (GHS-US) : Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container to in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures



# Essentria G Granular Insecticide

## Safety Data Sheet

| Name               | Product identifier  | %       |
|--------------------|---------------------|---------|
| Thyme oil          | (CAS-No.) 8007-46-3 | 0.6     |
| Eugenol            | (CAS-No.) 97-53-0   | 2.9     |
| Corn cob fractions | (CAS-No.) N/A       | 90 - 95 |
| Other ingredients  | (CAS-No.) N/A       | Balance |

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : An allergic skin reaction may occur in individuals with a sensitivity to Eugenol.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray.
- Unsuitable extinguishing media : Avoid heavy hose streams.

#### 5.2. Specific hazards arising from the chemical

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Do not breathe dust. Ventilate spillage area. Wear appropriate personal protective equipment, avoid direct contact.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : Avoid dust formation. Do not scatter spilled material with high pressure water streams. Stay upwind. Wear appropriate personal protective equipment, avoid direct contact. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal. Use appropriate PPE.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Do not eat, drink or smoke when using this product.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

# Essentria G Granular Insecticide

## Safety Data Sheet

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Store in a cool dry place. Store in a well-ventilated place. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Corn cob fractions (N/A) |                                     |                                                                    |
|--------------------------|-------------------------------------|--------------------------------------------------------------------|
| ACGIH                    | ACGIH TWA (mg/m <sup>3</sup> )      | 10 mg/m <sup>3</sup> (inhalable); 3 mg/m <sup>3</sup> (respirable) |
| OSHA                     | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (respirable)     |

### 8.2. Appropriate engineering controls

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Long sleeved protective clothing

#### Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                            |
|---------------------------------------------|----------------------------|
| Physical state                              | : Solid                    |
| Appearance                                  | : Brown solid granules     |
| Color                                       | : Brown                    |
| Odor                                        | : Faint                    |
| Odor threshold                              | : No data available        |
| pH                                          | : No data available        |
| Melting point                               | : No data available        |
| Freezing point                              | : No data available        |
| Boiling point                               | : No data available        |
| Flash point                                 | : No data available        |
| Relative evaporation rate (butyl acetate=1) | : No data available        |
| Flammability (solid, gas)                   | : Not applicable           |
| Vapor pressure                              | : No data available        |
| Relative vapor density at 20 °C             | : No data available        |
| Relative density                            | : No data available        |
| Bulk density                                | : 34 lb(s)/ft <sup>3</sup> |
| Solubility                                  | : No data available        |
| Log Pow                                     | : No data available        |
| Auto-ignition temperature                   | : No data available        |
| Decomposition temperature                   | : No data available        |

# Essentria G Granular Insecticide

## Safety Data Sheet

|                      |                     |
|----------------------|---------------------|
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic   | : No data available |
| Explosion limits     | : No data available |
| Explosive properties | : Not explosive     |
| Oxidizing properties | : Not applicable    |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Excessive heat.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| GHS-US Properties                                  | Classification                       |
|----------------------------------------------------|--------------------------------------|
| Acute toxicity                                     | Not classified                       |
| Skin corrosion/irritation                          | Not classified                       |
| Serious eye damage/irritation                      | Not classified                       |
| Respiratory or skin sensitization                  | May cause an allergic skin reaction. |
| Germ cells mutagen                                 | Not classified                       |
| Carcinogenicity                                    | Not classified                       |
| Reproductive toxicity                              | Not classified                       |
| Specific target organ toxicant (single exposure)   | Not classified                       |
| Specific target organ toxicant (repeated exposure) | Not classified                       |
| Aspiration hazard                                  | Not classified                       |

### Potential health effects

#### Inhalation

Acute : Exposure to dust may cause respiratory irritation.

#### Skin

Acute : Exposure to dust may cause mechanical irritation. An allergic skin reaction may occur in individuals with a sensitivity to Eugenol.

#### Eye

Acute : Exposure may cause mechanical eye irritation.

#### Ingestion

Acute : Under normal conditions of use, no health effects are expected.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

# Essentria G Granular Insecticide

## Safety Data Sheet

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## SECTION 14: Transport information

|             | UN number     | Proper Shipping Name | Transport hazard class(es) | Packing group | Environmental hazards |
|-------------|---------------|----------------------|----------------------------|---------------|-----------------------|
| <b>DOT</b>  | Not regulated | Not regulated        | Not regulated              | Not regulated | Not applicable        |
| <b>IMDG</b> | Not regulated | Not regulated        | Not regulated              | Not regulated | Not applicable        |
| <b>IATA</b> | Not regulated | Not regulated        | Not regulated              | Not regulated | Not applicable        |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Thyme oil (8007-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Eugenol (97-53-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### FIFRA Labelling

|                         |       |
|-------------------------|-------|
| EPA Registration Number | 25(b) |
|-------------------------|-------|

### 15.2. US State regulations

No additional information available

## SECTION 16: Other information

|               |                    |
|---------------|--------------------|
| Date of issue | : 18 February 2015 |
| Revision date | : 12 November 2018 |
| Supersedes    | : 11 November 2015 |

Indication of changes:

Revised Sec. 2.

SDS US (GHS HazCom 2012) - CGP

*The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.*



# Zoecon Gentrol IGR Concentrate

## Safety Data Sheet

Date of issue: 09/07/2015

Revision date: 05/24/2019

Supersedes: 05/15/2019

Version: 1.3

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Zoecon Gentrol IGR Concentrate  
Synonyms : 37860A, 37880A, 100540535, EPA Reg. No.: 2724-351, Zoecon RF-259 Emulsifiable Concentrate

#### 1.2. Recommended use and restrictions on use

Recommended use : Insect growth regulator.  
Restrictions on use : Avoid contact with eyes, skin or clothing. Keep out of reach of children. Avoid inhalation of vapors or fumes. Do NOT take internally.

#### 1.3. Supplier

Wellmark International  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173 - United States  
www.zoecon.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-248-7763  
1-800-424-9300 - CHEMTREC  
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|                                                             |                                              |
|-------------------------------------------------------------|----------------------------------------------|
| Skin corrosion/irritation Category 2                        | Causes skin irritation                       |
| Serious eye damage/eye irritation Category 2B               | Causes eye irritation                        |
| Specific target organ toxicity (single exposure) Category 3 | May cause drowsiness or dizziness            |
| Aspiration hazard Category 1                                | May be fatal if swallowed and enters airways |

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



GHS07



GHS08

Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

May be fatal if swallowed and enters airways  
Causes skin irritation  
Causes eye irritation  
May cause drowsiness or dizziness

Precautionary statements (GHS US) :

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands, forearms and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Immediately call a poison center or doctor.  
If on skin: Wash with plenty of water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center or doctor if you feel unwell.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

# Zoecon Gentrol IGR Concentrate

## Safety Data Sheet

Dispose of contents/container to in accordance with local/regional/national/international regulations.

### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                             | Product identifier     | %         |
|--------------------------------------------------|------------------------|-----------|
| (S)-Hydroprene                                   | (CAS-No.) 65733-18-8   | 9         |
| Distillates (petroleum), hydrotreated light      | (CAS-No.) 64742-47-8   | 59.12     |
| Alkyl (C10-16 benzenesulfonic acid, calcium salt | (CAS-No.) 68584-23-6   | 5.6 - 6.5 |
| Trade secret                                     | (CAS-No.) Trade secret | 2.17      |
| Other ingredients                                | (CAS-No.) N/A          | Balance   |

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Call a physician immediately. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes mild eye irritation.

Symptoms/effects after ingestion : Risk of lung edema.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Avoid heavy hose streams.

### 5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Avoid release to the environment.

# Zoecon Gentrol IGR Concentrate

## Safety Data Sheet

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Use appropriate PPE.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not use this product in or on electrical portions of equipment due to the possibility of shock hazard.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep from freezing.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Distillates (petroleum), hydrotreated light (64742-47-8) |                                |                                                                                      |
|----------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------|
| ACGIH                                                    | ACGIH TWA (mg/m <sup>3</sup> ) | Absorbed through skin. 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours. |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear long-sleeved shirt and long pants, and shoes plus socks.

#### Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Straw-colored liquid

Color : Straw-colored

# Zoecon Gentrol IGR Concentrate

## Safety Data Sheet

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Odor                                        | : Weak, neutral, paint-like |
| Odor threshold                              | : No data available         |
| pH                                          | : 7.29                      |
| Melting point                               | : Not applicable            |
| Freezing point                              | : No data available         |
| Boiling point                               | : No data available         |
| Flash point                                 | : 200 °F                    |
| Relative evaporation rate (butyl acetate=1) | : No data available         |
| Flammability (solid, gas)                   | : Not applicable            |
| Vapor pressure                              | : No data available         |
| Relative vapor density at 20 °C             | : No data available         |
| Relative density                            | : 0.87 g/cc (7.3 lb/gal)    |
| Solubility                                  | : No data available         |
| Log Pow                                     | : No data available         |
| Auto-ignition temperature                   | : No data available         |
| Decomposition temperature                   | : No data available         |
| Viscosity, kinematic                        | : No data available         |
| Viscosity, dynamic                          | : < 50 cP                   |
| Explosion limits                            | : No data available         |
| Explosive properties                        | : Not explosive             |
| Oxidizing properties                        | : Not applicable            |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Excessive heat > 110° F. Keep away from fire. Do not use this product in or on electrical portions of equipment due to the possibility of shock hazard.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| Zoecon Gentrol IGR Concentrate |               |
|--------------------------------|---------------|
| LD50 oral rat                  | > 5100 mg/kg  |
| LD50 dermal rabbit             | > 2100 mg/kg  |
| LC50 inhalation rat (mg/l)     | > 7.2 mg/l/4h |

| GHS-US Properties                 | Classification          |
|-----------------------------------|-------------------------|
| Acute toxicity (oral)             | Not classified          |
| Acute toxicity (dermal)           | Not classified          |
| Acute toxicity (inhalation)       | Not classified          |
| Skin corrosion/irritation         | Causes skin irritation. |
| Serious eye damage/irritation     | Causes eye irritation.  |
| Respiratory or skin sensitization | Not classified          |



# Zoecon Gentrol IGR Concentrate

## Safety Data Sheet

|                                                    |                                               |
|----------------------------------------------------|-----------------------------------------------|
| Germ cells mutagen                                 | Not classified                                |
| Carcinogenicity                                    | Not classified                                |
| Reproductive toxicity                              | Not classified                                |
| Specific target organ toxicant (single exposure)   | May cause drowsiness or dizziness.            |
| Specific target organ toxicant (repeated exposure) | Not classified                                |
| Aspiration hazard                                  | May be fatal if swallowed and enters airways. |

### Potential health effects

#### Inhalation

Acute : Causes drowsiness and dizziness.

#### Skin

Acute : Causes skin irritation.

#### Eye

Acute : May cause mild eye irritation.

#### Ingestion

Acute : Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**Mutagenicity** : (s)-Hydroprene is not a mutagen.

**Carcinogenicity** : (s)-Hydroprene did not cause cancer in laboratory animal studies.

**Reproductive Effects** : (s)-Hydroprene did not produce developmental or reproductive effects in laboratory animal studies.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### (S)-Hydroprene (65733-18-8)

NOEC (acute) > 0.43 mg/l (Exposure time: 96h - Rainbow trout)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## SECTION 14: Transport information

|      | UN number     | Proper Shipping Name | Transport hazard class(es) | Packing group | Environmental hazards |
|------|---------------|----------------------|----------------------------|---------------|-----------------------|
| DOT  | Not regulated | Not regulated        | Not regulated              | Not regulated | Not applicable        |
| IMDG | Not regulated | Not regulated        | Not regulated              | Not regulated | Not applicable        |
| IATA | Not regulated | Not regulated        | Not regulated              | Not regulated | Not applicable        |

# Zoecon Gentrol IGR Concentrate

## Safety Data Sheet

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Alkyl (C10-16 benzenesulfonic acid, calcium salt (68584-23-6)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Trade secret (Trade secret)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EPA TSCA Regulatory Flag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>FIFRA Labelling</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EPA Registration Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2724-351                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| FIFRA Signal word                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Caution</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| FIFRA Precautionary Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KEEP OUT OF REACH OF CHILDREN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| FIFRA Hazards to Humans and Domestic Animals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| FIFRA First Aid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Call a poison control center or doctor immediately for treatment advice. If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eye. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia. |
| FIFRA Physical Hazard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Do not use this product in or on electrical portions of equipment due to the possibility of shock hazard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

#### 15.2. US State regulations

No additional information available

### SECTION 16: Other information

Date of issue : 07 September 2015  
Revision date : 24 May 2019  
Supersedes : 15 May 2019

Indication of changes:

Revised Sec. 1 - added material number(s).

SDS US (GHS HazCom 2012) - CGP

*The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.*



# Gentrol®

## IGR Concentrate

with Gentrol® Insect Growth Regulator

- CONTROLS COCKROACHES, DRAIN AND FRUIT FLIES, BEDBUGS, AND STORED PRODUCT PEST POPULATIONS
- USE IN FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS
- FOR FOGGING IN FOOD HANDLING ESTABLISHMENTS
- CONTINUOUS PROTECTION FOR 4 MONTHS

## SPECIMEN LABEL

### ACTIVE INGREDIENTS:

(S)-Hydroprene (CAS #65733-18-8)

9%

### OTHER INGREDIENTS\*:

91%

Total

100%

\*Contains petroleum distillates

EPA Reg No. 2724-351

KEEP OUT OF REACH OF CHILDREN

### CAUTION

SEE ADDITIONAL PRECAUTIONARY STATEMENTS

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

### FIRST AID

Call a poison control center or doctor immediately for treatment advice.

|                     |                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If swallowed</b> | <ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.</li></ul> |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If in eyes</b>             | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li></ul>                                                                                                |
|                               | <ul style="list-style-type: none"><li>• Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eye.</li></ul>                                                                               |
| <b>If on skin or clothing</b> | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li></ul>                                                               |
| <b>If inhaled</b>             | <ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li></ul> |

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

**NOTE TO PHYSICIAN:** Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use this product in or on electrical portions of equipment due to the possibility of shock hazard.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### GENERAL INFORMATION

GENTROL®, an Insect Growth Regulator (IGR), is a synthetic, juvenile hormone "look-alike" which disrupts the normal growth development of cockroaches, drain flies, fruit flies, bedbugs, and stored product pests (examples of these pests include Indian meal moths,

rice moths, tobacco moths, red flour beetles, confused flour beetles, lesser grain borers, merchant grain beetles, sawtooth grain beetles, warehouse beetles, cigarette beetles, and Dermestid beetles). Cockroaches and bedbugs exposed to the GENTROL® IGR will become adults incapable of reproducing. GENTROL® also disrupts the normal life cycle of stored product pests, drain and fruit flies, and fleas; thus killing these insects during the pupal stage. In both cases, the cycle of an infestation ends. Use GENTROL® IGR Concentrate (GENTROL®) in apartment buildings, bakeries, bottling facilities, breweries, boiler rooms, cafeterias, candy plants, grocery stores, day care centers, hospitals, residential homes, hotel/motels, office buildings, kitchens, laboratories, cereal processing facilities, manufacturing plants, mausoleums, meat and produce canneries, nursing homes, restaurants, schools, locker rooms, stores, taverns, warehouses, as well as various modes of transportation such as aircraft, buses, trucks, trailers, rail cars, and marine vessels.

Use GENTROL® as a general surface spray, fogging, spot, or crack and crevice application.

Prior to using in commercial or residential (household) food areas, please refer to the Food Handling Establishment Applications section of the label. The preparations prior to treatment and the clean up after application described therein are also to be followed for residential (household) use.

## **INSTRUCTIONS FOR USE**

Mix GENTROL® with diluent and apply with spray or hand application equipment, such as hand-pressurized or power-operated sprayers capable of delivering general surface spray, fogging (space spray/mist), spot, crack and crevice spray applications, or with a paint brush, roller, or similar device.

### **DILUTION PREPARATION FOR SURFACE SPRAY/PAINT BRUSH, SPOT AND CRACK AND CREVICE PREPARATIONS**

Use 1 ounce of GENTROL® to 1 gallon of diluent. Partially fill the mixing container with diluent, add the GENTROL®, shake or stir, and fill to final volume. Use diluted solution within 48 hours of mixing. Shake or stir before each use. For fogging preparation follow equipment manufacturer's instructions.

### **TANK MIXING**

GENTROL® may be tank mixed with an adulticide currently registered for use, unless the product label prohibits such use. Use the resulting tank mixture in accordance with the more restrictive label limitations and precautions.

### **GENERAL SURFACE APPLICATION**

Apply the GENTROL® dilution at a rate of 1 gallon per 1500 sq ft of surface area. Use spray/application equipment capable of delivering a variable spray or coating to uniformly apply the solution. Apply to areas such as walls, floors, ceilings, attics, basements, or

crawlspaces. NOTE: Prior to treating around air ducts, shut off ventilation system. Allow treatment to dry prior to turning on ventilation system.

### **FOGGING (SPACE SPRAY/MIST) APPLICATION**

Apply GENTROL® as a fog or an ultra-low volume (ULV) mist with equipment such as ULV, mechanical misting sprayers, aerosol generators, or thermal foggers to achieve uniform coverage. Follow equipment manufacturer's instructions. Apply at a rate of 1 ounce GENTROL® per 12,000 cu ft. GENTROL® may be tank mixed with adulticides labeled for fogging. Follow the directions of the more restrictive label when tank mixing. Use water or oil as a diluent, depending on the type of equipment used. Fogging applications are best for larger facilities including warehouses (Refer to Warehouses section below). Close room or warehouse and shut off all ventilation systems. Apply the product in the air and direct mist toward all areas that may harbor target pests. After treatment, leave the room closed for 30 minutes or longer as recommended by the equipment manufacturer or the labels of other products applied in tank mixing. Do not remain in treated area; ventilate before reentry.

### **SPOT AND CRACK AND CREVICE APPLICATIONS**

Apply GENTROL® diluted spray solution using either a pressurized spray system capable of delivering a pinpoint or variable spray pattern or a device capable of coating evenly. Make crack and crevice applications directly to areas such as crevices, baseboards, floors, ceilings, or walls. Make spot treatments to areas such as storage areas, closets, around water pipes, doors, windows, and behind and under appliances/equipment, furniture and beds.

To treat bedbugs, apply to harborage points mentioned above; in addition, under beds, bottom side of box springs (do not treat linens and mattresses), under and behind night stands, to points where carpet and wall meet, cracks in cove base, molding, and other areas where bedbugs harborage. Retreat at 14 days for heavy infestations.

### **WAREHOUSES (Non-Food)**

Apply GENTROL® as a general surface, fogging, spot, or crack and crevice treatment in non-food storage warehouses. Apply to all areas that may harbor pests, including under and between pallets.

### **FOOD HANDLING ESTABLISHMENT APPLICATIONS**

Apply GENTROL® as a general surface, fogging, spot, or crack and crevice treatment in both food and non-food areas of Food Handling Establishments. These establishments are defined as places other than private residences where exposed food is held, prepared, processed, or served. It also includes areas where food items are received, prepared, packaged, and stored, as well as enclosed food processing systems (mills, dairies, etc).

## **SPOT AND CRACK AND CREVICE APPLICATIONS**

Prior to application, remove or cover all food items in area to be treated. Do not apply directly to food or food-handling surfaces.

## **FOR CONTROL OF DRAIN FLIES, FRUIT FLIES**

Apply GENTROL® to areas of fly breeding. For drains, apply product into and around the downspout and catch basin area. Coat these areas thoroughly as fly larvae develop in the scum buildup on the sides of drain pipes. Repeat applications at 2 to 4 week intervals depending upon the severity of infestation.

## **ALTERNATE DIRECTIONS FOR FOAM APPLICATION**

Refer to the Dilution Preparation section of this label for appropriate dilution rate for GENTROL®. To convert GENTROL® dilution to a foam, add foaming agent at manufacturer's rate. For best results, use the higher amount of the foaming agent rate range. Follow the requirements of the foam equipment manufacturer.

## **SURFACE SPRAY APPLICATION (DO NOT APPLY DIRECTLY TO FOOD PRODUCTS)** **GENERAL AREA TREATMENTS**

Prior to application, remove or cover all food items. Also, cover all food contact surfaces (i.e., equipment, benches, shelves - areas where exposed food may be handled, held, prepared, processed, or served). If left uncovered, these areas must be thoroughly cleaned by a method capable of removing chemical residues after treatment.

## **PARTIAL AREA TREATMENTS**

GENTROL® can be applied to partial areas of food handling establishments in cases of small or localized infestations. For partial area treatments, a perimeter of at least 6 feet must be established (6 feet in all directions from the treated area), where all food handling surfaces are either covered at the time of treatment, or thoroughly cleaned by a method effective in removing chemical residues after treatment.

## **PANTRY/CABINETS, SMALL FOOD STORAGE AREAS**

Apply as a surface spray, crack and crevice spray, or spot treatment to pantry and cupboard shelves or other areas where food is stored. Prior to spraying, remove all food containers and foodstuffs. Do not replace food containers or foodstuffs until spray has dried. Do not store food in open containers in treated pantries. Destroy any infested food packages to ensure proper control.

## **FOGGING (SPACE SPRAY/MIST) APPLICATION**

Prior to application, remove or cover all food items. Also, cover all food contact surfaces (i.e.; equipment, benches, shelves - areas where exposed food may be handled, held, prepared, processed, or served). If left uncovered, these areas must be thoroughly cleaned by a method capable of removing chemical residues after treatment.

## **WAREHOUSES (Food)**

Apply GENTROL® as a general surface, fogging, spot, or crack and crevice treatment in warehouses where packaged food items are stored in such a way that direct contact with the foodstuff is not anticipated.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

### **STORAGE**

Store in a cool area away from children.

### **PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL**

Do not reuse empty container. Securely wrap original container in several layers of newspaper and discard in trash.

## **WARRANTY**

Seller makes no warranty, expressed or implied, concerning the use and handling of this product other than indicated on the label. Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information, call **1-800-248-7763** or visit our Web site: **www.zoecon.com**



# SPECIMEN

# PT<sup>®</sup> Phantom<sup>®</sup> II

## Pressurized Insecticide

**For sale to, use and storage only by individuals/firms licensed or registered by the state to apply termiticide and/or general pest control products.**

**KILLS:** Ants (including *foraging* Fire, Harvester and Pharaoh), Asian Lady Beetles, Bed Bugs, Bees (Honey), Beetles, Boxelder Bugs, Carpenter Bees, Centipedes, Cluster Flies, Cockroaches, Crickets, Dermestids, Drain Flies, Earwigs, Elm Leaf Beetles, Flour Beetles, Grain Weevils, House Flies, Indianmeal Moths, Pillbugs, Silverfish, Spiders (excluding Brown Recluse), Springtails, Stable Flies, Stink Bugs, Termites\* (Subterranean), Wasps and Yellowjackets

\* Not a substitute for mechanical alteration, soil or foundation treatment.

**FOR USE IN AND AROUND:** Apartments, Food Storage Areas, Homes, Hospitals, Hotels, Meat Packing and Food Processing Plants, Motels, Nursing Homes, Restaurants and other Food Handling Establishments, Schools, Supermarkets, Warehouses and other Commercial and Industrial Buildings

**ACTIVE INGREDIENT:**

Chlorfenapyr: 4-bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile . . . . . 0.5%

**OTHER INGREDIENTS:** . . . . . 99.5%

**TOTAL:** . . . . . 100.0%

**EPA Reg. No. 499-548**

**EPA Est. No.**

### KEEP OUT OF REACH OF CHILDREN CAUTION

See side panel(s) for Precautionary Statements, Directions for Use,  
Storage and Disposal and Conditions of Sale and Warranty.

**NET CONTENTS:**

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

  
We create chemistry



## HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may also call 1-800-832-HELP (4357) 24 hours/day, 7 days/week.

## PRECAUTIONARY STATEMENTS

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### APPLICATORS AND OTHER HANDLERS MUST

**WEAR:** baseline PPE consisting of long-sleeved shirt, long pants and shoes plus socks.

**USER SAFETY REQUIREMENTS:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove and wash contaminated clothing before reuse.

### USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms, birds and wildlife. **DO NOT** apply directly to water or to areas where surface water is present or intertidal areas below the mean high water mark.

### For Outdoor Use

To protect the environment, **DO NOT** allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

## PHYSICAL OR CHEMICAL HAZARDS

**Flammable.** Contents under pressure. Keep away from heat, sparks and open flame. **DO NOT** puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. **DO NOT** spray directly into any electronic equipment such as radios, televisions, computers, etc. due to the possibility of short circuits or shock hazard. Test on a small surface prior to use, as spray may mar plastic, painted or varnished surfaces.

## DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

### USE RESTRICTIONS

- Apply this product only as specified on this label.
- **DO NOT** compost any discarded plant materials that have been treated with this product.
- **DO NOT** make outdoor applications during rain.
- **DO NOT** reapply to treated areas more than 1x every 4 weeks.
- **DO NOT** allow adults, children or pets to enter until vapors, mists and/or aerosols have dispersed and the treated area has been thoroughly ventilated. **DO NOT** contact treated surfaces until dry.
- When used in schools, **DO NOT** apply to classrooms while in use. Allow treated areas to dry thoroughly before reoccupying.
- When used in hospitals and nursing homes, remove patients before treating rooms. Allow treated areas to dry thoroughly before returning patients to rooms.
- When used in the home, remove or cover exposed food and drinking water in the treatment area before application. Remove or cover dishes, utensils, food processing equipment and food preparation surfaces in the treatment area or wash them before use. **DO NOT** use in serving areas while food is exposed.
- Applications in food areas of food handling establishments are limited to spot and/or crack and crevice treatments. **DO NOT** make applications when facility is in operation. Avoid contamination of food or feedstuffs. **DO NOT** apply directly to food, food packaging or food contact surfaces. During application, cover or remove food and cover food processing surfaces and equipment, or clean after treatment with a suitable detergent and rinse with potable water before use. **DO NOT** use in serving areas (dining areas where prepared foods are served) while food is exposed or facility is in operation.
- Except when applying to sewers or drains as instructed on this label, **DO NOT** apply directly into sewers or drains or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur.
- When used in zoos, remove animals and cover or remove animal food/water prior to application.
- Remove pets and cover or remove pet food/water and fish bowls prior to application.



**CRACK & CREVICE® TREATMENT:** Use with the supplied actuator and injection tubes. Inject into cracks and crevices or void spaces where insects may be harboring, living and breeding. Place injector tip into cracks, crevices, holes and other small openings. Release approximately 1 sec of product. For light infestations, move injector tip along cracks while treating at the rate of 3 In ft/sec. For heavy infestations, move injector tip along at 1 In ft/sec. For closed voids, calculate the void's cubic area and treat at the rate of 1 to 5 sec/3 ft<sup>3</sup>. Several holes may be required in long-running voids.

**SPOT TREATMENT:** Use with the supplied actuator and injection tubes. Hold container upright while spraying. Direct nozzle approximately 12 inches from surface to be treated. Apply directly on insects in these locations when possible. Limit individual spot treatments to an area no larger than 2 ft<sup>2</sup>/room.

Before spot treating on plastic, painted or varnished surfaces, test a small, inconspicuous area and observe for staining or damage to finish.

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## INDOOR TREATMENTS

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**CRAWLING PESTS [including Centipedes, Cockroaches, Crickets, Dermestids, Earwigs, Sowbugs and Spiders (excluding Brown Recluse)]:**

Apply as a Crack & Crevice treatment using the prescribed amount into cracks, crevices and void spaces where pests may harbor, nest, trail, run or hide, including openings around pipes and sinks, under refrigerators, behind baseboards, washing machines, stoves, cabinets, sewers, floor drains and meter boxes. Spot treatments may also be made to areas such as storage areas; closets; around water pipes, doors and windows; around refrigerators, cabinets, sinks, stoves and other equipment; shelves and drawers.

**BOOKLICE and SILVERFISH:** Apply as a Crack & Crevice treatment into cracks and crevices of baseboards, door frames, bookcases and other harborage sites. Spot treatments may also be made to areas such as storage areas; closets; around water pipes, doors and windows; around refrigerators, cabinets, sinks, stoves and other equipment; shelves and drawers.

**ANTS (including *foraging* Fire, Harvester and Pharaoh):** Apply as a Crack & Crevice treatment into cracks, crevices and voids where ants may harbor, nest, trail, run or hide, including around doors, window frames, wall voids and other structural cracks and crevices. Spot treatments may also be made to areas such as storage areas; closets; around water pipes, doors and windows; around refrigerators, cabinets, sinks, stoves and other equipment; shelves, drawers and similar areas.

**BED BUGS:** Apply to cracks, crevices, voids and/or harborage where evidence of bed bugs occurs, including bed frames, box springs, inside empty dressers, furniture and clothes closets, carpet edges, high and low wall moldings, behind headboards, pictures and wallpaper edges.

**DO NOT** make surface applications to mattresses or bedding. Mattress treatments must be limited to seams, folds and edges only. **DO NOT** treat pillows, bedding or clothing. Remove linens and wash before reuse. Allow treated mattress to dry thoroughly before remaking the bed. Remove all clothes and other articles from dressers or clothes closets before application. Allow treated areas to dry thoroughly before use.

**CHOCOLATE MOTHS, DRUGSTORE BEETLES, FLOUR BEETLES, GRAIN WEEVILS, INDIANMEAL MOTHS and TROGODERMAS (in exposed adult and larval stages):**

Apply into cracks, crevices and/or voids where these pests may harbor such as cracks and crevices in cabinets and pantries, wall voids, around window and door frames, and in machinery. Spot treatments may also be made to areas such as storage areas; closets; around water pipes, doors and windows; around refrigerators, cabinets, sinks, stoves and other equipment; shelves, drawers and similar areas.

**DRAIN FLIES:** Release approximately 1 to 2 sec of product into the drain basin.

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## FOOD HANDLING ESTABLISHMENTS

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Food handling establishments are places other than private residences in which food is held, processed, prepared or served.

**FOOD AREAS:** Includes areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) are also considered food areas.

Apply as a Crack & Crevice treatment or spot treatment directly into cracks, crevices, voids or onto surfaces where insects harbor, nest, trail, run or hide. Use an injection tube capable of delivering a pinstream. Apply to different elements of construction; between equipment and floor; openings leading to hollow spaces in walls, equipment legs and bases; and where insects hide or nest.

Limit individual spot treatments to an area no larger than 2 ft<sup>2</sup>/room.

**NON-FOOD AREAS:** Includes areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage areas (after canning or bottling).

Apply as a Crack & Crevice treatment or spot treatment to selected surfaces such as baseboards and under elements of construction.

## INTERIOR/LIMITED EXTERIOR APPLICATION OF STRUCTURES AS A CRACK & CREVICE OR SPOT TREATMENT

**FOR ACTIVE AND HIBERNATING STAGES OF ASIAN LADY BEETLES, BOXELDER BUGS, CLUSTER FLIES, ELM LEAF BEETLES, HONEY BEES, STINK BUGS, WASPS AND YELLOWJACKETS:** Apply as a Crack & Crevice or spot treatment into cracks, crevices and/or voids where these insects may harbor, congregate or hibernate such as cracks and crevices, behind siding, wall voids, around window and door frames.

**CARPENTER BEES:** Locate entrance holes. Treat galleries through entrance holes. Seal bee entrances after application.

**CRAWLING INSECTS (including Centipedes, Crickets, Earwigs, Pillbugs and Springtails):** Apply as a Crack & Crevice or spot treatment into cracks and crevices where insects may enter premises or harbor such as weep holes, under siding, wall voids, soffits, around attic vents, cracks, crevices and openings around windows, doors and pipes, and exterior areas where utilities may enter the structure.

**FLIES (House and Stable):** Apply as a Crack & Crevice or spot treatment to areas where flies rest, congregate or enter the structure on both the exterior and interior. Apply around doors, windows, garages, garbage storage areas, upper corners of walls, ceiling areas, around sky lights, light fixtures and similar areas.

**TERMITES (Subterranean):** This product is for localized treatment only and is not designed as a stand alone treatment. It is designed to kill the termites it contacts during application and the ones that might return to the treated area. Inject into cracks, crevices and voids where termites are known or suspected. For wood treatment, drill a hole every 8 to 12 inches across the face of the board and inject 1 to 3 sec of product into the gallery. (Specialized equipment is required for this application). For treating carton, inject for 3 to 5 sec at several locations if possible.

## STORAGE & DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store this product in a cool, dry (preferably locked) place away from heat or open flame, in an area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: DO NOT** puncture or incinerate! **If Empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

Contains no CFCs or other ozone depleting substances.

Federal regulations prohibit CFC propellants in aerosols.



## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

PCS915

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Based on: NVA 2017-04-474-0183  
Supersedes: NVA 2014-04-474-0264

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

  
We create chemistry



Specimen Label

- Kills Bed Bugs, Lice & Dust Mites
- Kills Bed Bugs and their eggs
- Will not stain water-safe fabrics and surfaces
- Kills Bed Bugs on wood and ceramic surfaces and carpet for up to 2 weeks
- Reduces Bed Bug egg hatch in both susceptible and some resistant strains of Bed Bug eggs

**ACTIVE INGREDIENTS:**

|                                                                                                          |         |
|----------------------------------------------------------------------------------------------------------|---------|
| 3-phenoxybenzyl-(1RS, 3RS, 1RS, 3SR)-2, 2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate ..... | 0.40%   |
| *N-Octyl bicycloheptene dicarboximide .....                                                              | 1.53%   |
| OTHER INGREDIENTS .....                                                                                  | 98.07%  |
| *MGK® 264®, Insecticide Synergist                                                                        | 100.00% |

Not for use on humans or animals.

For indoor use in the home and non-food areas of restaurants, schools, nursing homes, warehouses, offices, apartments, hotels, motels, kennels, and hospitals.

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

See inside for first aid and precautionary statements.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**USE RESTRICTIONS:**

- Do not apply this product in a manner that will contact workers or other persons either directly or through drift
- Only protected handlers may be in the area during application
- Remove pets, birds, and cover fish aquariums before spraying, and turn aquarium systems off
- Do not allow adults, children, or pets to enter the treated area until sprays have dried. Do not use treated article until spray has dried
- Do not use in aircraft cabins
- In hospitals and nursing homes, remove patients before treatment. Ventilate room for two hours before returning patients
- Do not apply more than 1 time per day

**THIS PRODUCT IS NOT FOR USE ON HUMANS:**

If lice infestation should occur on humans, use a product labeled for use on humans.

Do not use in commercial food/feed processing, preparation, food/feed storage or serving areas. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use. Remove or cover exposed food and drinking water before application.

SHAKE WELL BEFORE EACH USE.

**APPLICATION:** Spray in an inconspicuous area to test for possible staining or discoloration. Evaluate test area after drying. Hold container upright with nozzle aimed away from you. Depress valve and spray from a distance of 8 to 10 inches. Spray each square foot for 5 seconds or until damp. Do not wet articles to the point of runoff or drip. Most effective results are achieved when used as part of a treatment protocol that includes physical, environmental and other chemical pest control measures. Vacate room after treatment and ventilate before reoccupying. Allow sprayed articles and surfaces to dry thoroughly before using or replacing bedding.

**TO KILL LICE:**

Spray only those garments, parts of bedding, including mattresses and furniture that cannot be either laundered or dry-cleaned.

**TO KILL TICKS AND FLEAS:**

Spray around beds, furniture and pet's habitat. Spray pet sleeping quarters, bedding, floor and floor covering where pets are kept. Use only a recommended pet spray on pets.

**TO KILL DUST MITES:**

Thoroughly vacuum entire room concentrating on areas where mites congregate: such as mattresses, box springs, headboards, walls, floors, carpeting and baseboards. Then spray surfaces until damp.

**TO KILL BED BUGS AND BED BUG EGGS:**

Apply as a spot treatment to cracks and crevices on and around baseboards, floorboards, bed frames, wall hangings, headboards, furniture, door and window frames, millwork and walls. Apply as a surface spray to carpet, mattresses, box springs, walls, furniture, bedding, floor and floor coverings, rugs, garments, luggage, closets, drapes and other window appointments. Thoroughly clean and air-out mattresses and box springs. Then treat areas that may harbor Bed Bugs or their eggs, such as tufts, folds and seams. When treating for Bed Bug eggs, spray each square foot for 13 seconds or until damp.

**TO KILL CLOTHES MOTHS AND CARPET BEETLES:**

Apply as a spot treatment to cracks and crevices on and around baseboards, floorboards, furniture and around the edges of carpet. Apply as a surface spray to carpet, rugs, closets, baseboards, furniture, on floor and floor coverings. When treating carpets, floor coverings or rugs, spray a sufficient amount to get the spray down into the base where the larval stages are feeding. Spray upper and lower surfaces of rugs or floor covering when possible.

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear the following:

- Long-sleeved shirt,
- Long pants,
- Shoes and socks, and
- Chemical-resistant gloves made of any waterproof material.

### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment, washwater or rinsate. See Directions for Use for additional precautions and requirements.

### PHYSICAL OR CHEMICAL HAZARDS

**Contents under pressure.** Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not apply this product around electrical equipment due to the possibility of shock hazard.

## FIRST AID

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

### PESTICIDE STORAGE:

Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

### PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Do not puncture or incinerate!

Non-refillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency for disposal instructions.



Federal regulations prohibit  
CFC propellants in aerosols



EPA Reg. No. 1021-1767  
EPA Est. No. 1021-MN-2  
Rev. 1119-0421



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7325 Aspen Lane North, Minneapolis MN 55428



# Mavrik®

## Perimeter

**FOR COMMERCIAL USE ONLY ON OUTDOOR PLANTS IN ORNAMENTAL PLANTINGS, PLANTSCAPES (INCLUDING TREES AND SHRUBS) AND FOR PERIMETER TREATMENT AROUND BUILDINGS AND OUTSIDE SURFACES**

- **PERIMETER TREATMENT AGAINST A WIDE RANGE OF INSECTS INCLUDING MOSQUITOES, FIRE ANTS, AND STINK BUGS**
- **IDEAL FOR APPLICATIONS WE WITHOUT THORRY OF WATERING-IN**
- **CONTAINS TAU-FLUVALINATE**
- **SMALL, EASY TO USE 8 OZ. BOTTLE**

### ACTIVE INGREDIENT:

Tau-fluvalinate (CAS #102851-06-9)..... 22.3%

**OTHER INGREDIENTS:**..... 77.7%

**TOTAL:**..... 100.0%

MAVRIK® Perimeter is a flowable formulation containing  
2 pounds tau-fluvalinate per gallon (240 g/L)

EPA Reg. No. 2724-478

EPA Est. No. 2724-TX-1

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

READ COMPLETE DIRECTIONS AND  
PRECAUTIONS INSIDE

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves (such as or made out of any waterproof material, selection category A).

#### FIRST AID

**If swallowed** • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

**If on skin or clothing** • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

## SPECIMEN LABEL

**If inhaled** • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

**If in eyes** • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. • Call a poison control center for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves, and
- A NIOSH approved respirator with any R, P, or HE filter.

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.



### User Safety Recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift from the target area.

This product is toxic to honey bees if bees are exposed to direct application. However, dried residues of this product are non-toxic to honey bees. Treat during non-foraging periods to minimize adverse effects.

### PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### RESTRICTIONS

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Keep unprotected people, children and pets out of treated area until spray has dried. Some sensitive pets eating or coming in contact with freshly treated plants may demonstrate vomiting and respiratory distress.

Do not apply this product by aerial application or through any type of irrigation system.

Do not apply to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment. During application, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters.

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses if allowed elsewhere on this label:

1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure

spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

### APPLICATION DIRECTIONS

MAVRIK® PERIMETER controls insects and controls or suppresses mite pests when used at labeled rates. MAVRIK® PERIMETER works primarily through contact action, good spray coverage is necessary. Treat when pests are immature or at a susceptible stage and populations are manageable, before damage occurs. Repeat applications as needed, according to the specific use directions given in this label. Residues of MAVRIK® PERIMETER can continue to control certain insect pests for a week or longer. Growth dilution, climatic variables, and pest habits determine retreatment needs.

Dilute MAVRIK® PERIMETER in sufficient water to give thorough spray coverage based on previous experience. For best results under varying conditions, a range of use rates is recommended for most uses. Select the higher rates when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. Buffer spray water to pH 5-7, if necessary.

For severe mite infestations, use the highest rate of MAVRIK® PERIMETER and use an acaricide in an alternate treatment program. The use of a spreader-sticker, insecticidal soaps, or piperonyl butoxide may improve control of mites and some insects, such as, whiteflies, aphids, thrips, and mealybugs. When MAVRIK® PERIMETER is mixed with wettable powders, add powders to the tank first using good agitation. Check for physical and biological compatibility prior to use.

Dried residues of MAVRIK® PERIMETER are non-toxic and non-repellent to honey bees. Treat during non-foraging periods to minimize adverse effects.

Consult your local extension office, pest management consultant, or a Wellmark International specialist for guidance in selecting a rate and timing schedule or mixing combination that has demonstrated good performance under specific conditions.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place. Pesticides must be stored in a secured area away from other products, food, or feed. Keep pesticide storage areas clean. Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. In case of a spill or leak, soak up with soil or other absorbent material.

Do not use caustic agents. **Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or disposal program (often such programs are run by state or local governments or by industry). **Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture or dispose of in a sanitary landfill, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

## AMOUNT MAVRIK® PERIMETER IN WATER TO MAKE

| SITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 GALLONS                                           | 1 GALLON                                             | SPECIFIC DIRECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For Outdoor Applications:</b> Use lower rates and greater re-treatment intervals for light to moderate insect pressures. Use higher rates and shorter re-treatment intervals for green peach aphids, unexposed insects and heavy pressures of other insects. Directly spray at the rate of 0.1 fl oz/gallon to kill lone star ticks and deer ticks and bark scorpions. Mite suppression can be obtained using the lower rate; for more residual control of mites, use up to 0.5 fl oz/5 gallons water [0.1 fl oz/1 gallon of water] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Perimeter Treatments to include Outside Surfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Aphids, Thrips, Mites, Clover Mites, Two-Spotted Spider Mites, Whiteflies, Mealybugs, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Ticks, Brown Dog Ticks, American Dog Ticks, Lone Star Ticks, Deer Ticks, Fleas, Ants, Fire Ants, Crickets, Armyworms, Cutworms, Springtails (Collembola), Adelgids, Mosquitoes, Chiggers*, Earwigs, Lygus Plant Bugs, Beetles (Flea, Cucumber, Elm Leaf), Leafhoppers, Weevils* (Strawberry Root, Obscure Root, Blackvine Root), Psyllids, Millipedes*, American Cockroaches, Smoky Brown Cockroaches, Oriental Cockroaches, Boxelder Bugs, Spiders, Silverfish, Firebrats, Chinch Bugs, Asian Lady Beetles*, Sowbugs, Glassy-Wing Sharpshooters, Stink Bugs, Bark Scorpions<br>* Except in California | 0.2–0.5 fl oz<br>(11/3–3<br>teaspoons)<br>(6–15 ml) | .04–0.1 fl oz<br>(1/3–2/3<br>teaspoon)<br>(1.2–3 ml) | <p>Apply MAVRIK® Perimeter to perimeters and outside surfaces of residential, non-commercial, and commercial buildings such as industrial offices, institutional buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, storage sheds, patios.</p> <p>Apply MAVRIK® Perimeter using a low pressure, coarse fan spray, applied in even bands to surfaces and perimeters where pests are a problem. Apply the spray mixture at a volume equivalent to 5 gallons per 1,000 square feet. Depending on the severity of pest infestations, a re-treatment may be necessary at 7–14 days. Apply no more than 4 times per month or no more than 20 times per year. Typical re-treatment interval is 28 days.</p> <p>When using cold foggers or other ULV delivery systems for perimeter applications, apply the labeled amount of MAVRIK® Perimeter over the square footage with the equipment manufacturer's requirement of water. Follow manufacturer's calibration procedures.</p> <p>Perimeter applications are made to a band of soil and/or vegetation 6 to 10feet wide around and adjacent to the structure. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. These sites may include refuse dumps, vegetation areas, soil, trunks of woody ornamentals, and fence lines adjacent to or around the structure, and other areas near a structure where pests congregate or have been seen.</p> <p>Surface applications can be made to all outside surfaces of structures listed above and includes porches, window and door frames, eaves, and foundations. Apply as a crack-and-crevice treatment using a pinstream nozzle to pest harborage sites. Refrain from applying to the point of runoff.</p> |



| AMOUNT MAVRIK® PERIMETER IN WATER TO MAKE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SITE                                      | PEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 GALLONS                             | 1 GALLON                                          | SPECIFIC DIRECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Woody and Herbaceous Ornamentals–Outdoors | Aphids, Thrips, Mites, Clover Mites, Whiteflies, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Lygus Plant Bugs, Beetles (Flea, Cucumber, Elm Leaf), Leafhoppers, Earwigs, Ants, Crickets, Armyworms, Cutworms, Sowbugs, Chiggers*, Millipedes*, Springtails (Collembola), Adelgids, Mosquitoes, Glassy-Wing Sharpshooters, Stink Bugs, Bark Scorpions, Strawberry Root Weevils*, Obscure Root Weevils*, Blackvine Root Weevils*<br>* Except in California | 0.2–0.5 fl oz<br>(1 1/3–3 teaspoons)  | .04–0.1 fl oz<br>(1.2–3 ml)<br>(1/3–2/3 teaspoon) | Make applications to large, mature ornamental specimen plants or plants in containers larger than 5 gallons in size. Mix 0.2–0.5 fl oz or 1 1/3–3 teaspoons of MAVRIK® Perimeter in 5 gallons of water. Apply 5 gallons of spray solution per equivalent of 1,000 square feet of growing area using a low pressure, coarse fan spray application. Spray interval is typically 14–28 days but not more than 4 applications per month. Do not exceed 24 applications per year. Use sufficient water to thoroughly cover the surfaces to be treated. Use lower rates for light to moderate insect pressure. Spray on ground around base of tree or shrub and/or up main trunk or stem and foliage |
| Eugenia and Pepper Tree                   | Psyllids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.25–0.5 fl oz<br>(1 1/2–3 teaspoons) | 0.05–0.1 fl oz<br>(1/3–2/3 teaspoon)              | Apply 0.25–0.5 fl oz (1 1/2–3 teaspoons of MAVRIK® Perimeter per 5 gallons of water to protect new foliage, depending on pest pressure. Use the higher rate of MAVRIK® Perimeter for heavier infestations of psyllids. Apply 2 applications at 14 day intervals under heavy reinfestation pressure or if new foliage is present. If pruning is needed, prune the entire hedge, then delay application until adults and new shoots are present.                                                                                                                                                                                                                                                 |
| Ant Mound Treatment                       | Fire Ants and other mounding ant pests                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.5 fl oz<br>(15 ml)<br>(3 teaspoons) | 0.1 fl oz<br>(3 ml)<br>(2/3 teaspoon)             | <b>Individual ant mound treatment:</b> Apply as drench using 1 gallon of spray solution per mound to control mounding ant colonies, including the fire ant. Thoroughly mix 2/3 teaspoon (0.1 fl oz/3 ml) of MAVRIK® Perimeter with 1 gallon of water. Drench the mound using 1 gallon of dilution per mound. Apply the dilution starting on the perimeter of the mound and ending at the center of the mound until the entire mound is wet but not to the point of runoff.                                                                                                                                                                                                                     |

To the extent consistent with applicable law, Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.

For information, or in case of emergency, call **1-800-248-7763**.

**www.zoecon.com**

**Wellmark International**  
1501 East Woodfield Road 200W  
Schaumburg, Illinois 60173



# Safety Data Sheet

## 565 PLUS XLO FORMULA 2 CONTACT INSECTICIDE

Revision date : 2023/12/22

Version: 13.0

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(30507854/SDS\_CPA\_US/EN)

### 1. Identification

**Product identifier used on the label**

## 565 PLUS XLO FORMULA 2 CONTACT INSECTICIDE

**Recommended use of the chemical and restriction on use**

Recommended use\*: insecticide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA

Contact address:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932  
USA  
Telephone: +1 973 245-6000

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Substance number: 458813

Registration number: EPA Registration number: 499-290

### 2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

STOT SE

3 (May cause  
drowsiness and  
dizziness.)

Specific target organ toxicity — single exposure

# Safety Data Sheet

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|                 |                                      |                                                  |
|-----------------|--------------------------------------|--------------------------------------------------|
| STOT SE         | 3 (irritating to respiratory system) | Specific target organ toxicity — single exposure |
| Aquatic Acute   | 1                                    | Hazardous to the aquatic environment - acute     |
| Aquatic Chronic | 1                                    | Hazardous to the aquatic environment - chronic   |
| Eye Irrit.      | 2B                                   | Eye irritation                                   |
| Aerosol         | 1                                    | Aerosols                                         |

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

|      |                                                       |
|------|-------------------------------------------------------|
| H222 | Extremely flammable aerosol.                          |
| H229 | Pressurized container: May burst if heated.           |
| H320 | Causes eye irritation.                                |
| H336 | May cause drowsiness or dizziness.                    |
| H335 | May cause respiratory irritation.                     |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273 | Avoid release to the environment.                                                              |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P261 | Avoid breathing mist or vapour or spray.                                                       |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |
| P264 | Wash contaminated body parts thoroughly after handling.                                        |

Precautionary Statements (Response):

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P312               | Call a POISON CENTER or physician if you feel unwell.                                                                            |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P391               | Collect spillage.                                                                                                                |
| P337 + P313        | If eye irritation persists: Get medical attention.                                                                               |

Precautionary Statements (Storage):

|             |                                                                             |
|-------------|-----------------------------------------------------------------------------|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.            |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. |
| P405        | Store locked up.                                                            |

Precautionary Statements (Disposal):

|      |                                                                     |
|------|---------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---------------------------------------------------------------------|

**Hazards not otherwise classified**

# Safety Data Sheet

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### Labeling of special preparations (GHS):

Repeated exposure may cause skin dryness or cracking.

May cause paraesthesia. Contains: Pyrethrins

## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Pyrethrins

CAS Number: 8003-34-7

Content (W/W): 0.5 %

Synonym: Pyrethrin

#### Piperonylbutoxide

CAS Number: 51-03-6

Content (W/W): 1.0 %

Synonym: Piperonylbutoxide

#### n-Octyl bicycloheptene dicarboximide

CAS Number: 113-48-4

Content (W/W): 1.0 %

Synonym: n-Octyl bicycloheptene dicarboximide

#### Acetone

CAS Number: 67-64-1

Content (W/W):  $\geq 50.0$  -  $< 75.0\%$

Synonym: 2-Propanone Acetone; Dimethyl ketone

#### carbon dioxide

CAS Number: 124-38-9

Content (W/W):  $\geq 5.0$  -  $< 7.0\%$

Synonym: No data available.

#### Distillates (petroleum), hydrotreated light

CAS Number: 64742-47-8

Content (W/W):  $\geq 1.0$  -  $< 3.0\%$

Synonym: No data available.

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### If on skin:

Wash thoroughly with soap and water

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### **If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

### **If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

### **Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Vomiting may cause aspiration pneumonia due to the ingredients.

### **Indication of any immediate medical attention and special treatment needed**

#### Note to physician

Treatment: Vomiting may cause aspiration pneumonia due to the ingredients.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

---

## **5. Fire-Fighting Measures**

### **Extinguishing media**

Suitable extinguishing media:  
carbon dioxide, foam, dry powder, water spray

### **Special hazards arising from the substance or mixture**

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide,  
Aerosol container contains flammable gas under pressure. Pressure inside container is increased when heated, and may cause explosion. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

### **Advice for fire-fighters**

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

---

## **6. Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

# Safety Data Sheet

## 565 PLUS XLO FORMULA 2 CONTACT INSECTICIDE

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Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA ('Superfund').

### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

---

## 7. Handling and Storage

### Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

Storage stability:

May be kept indefinitely if stored properly.

If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

Storage duration: 24 Months

Protect from temperatures above: 130 °F

Explosive at or above indicated temperature.

---

# Safety Data Sheet

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### 8. Exposure Controls/Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

#### **Components with occupational exposure limits**

|                |            |                             |
|----------------|------------|-----------------------------|
| Acetone        | ACGIH, US: | TWA value 250 ppm ;         |
|                | ACGIH, US: | STEL value 500 ppm ;        |
|                | OSHA Z1:   | PEL 1,000 ppm 2,400 mg/m3 ; |
| carbon dioxide | ACGIH, US: | TWA value 5,000 ppm ;       |
|                | ACGIH, US: | STEL value 30,000 ppm ;     |
|                | OSHA Z1:   | PEL 5,000 ppm 9,000 mg/m3 ; |

#### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### **Personal protective equipment**

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

##### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

##### **Eye protection:**

Safety glasses with side-shields. Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift.

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No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

### 9. Physical and Chemical Properties

|                                                     |                                                                                                                                                                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form:                                               | liquid, aerosol                                                                                                                                                                                                                          |
| Odour:                                              | of acetone                                                                                                                                                                                                                               |
| Odour threshold:                                    | Not determined due to potential health hazard by inhalation.                                                                                                                                                                             |
| Colour:                                             | amber, cloudy                                                                                                                                                                                                                            |
| pH value:                                           | approx. 8 - 10<br>( 1 %(m), 20 - 25 °C)                                                                                                                                                                                                  |
| Flammability:                                       | Extremely flammable.                                                                                                                                                                                                                     |
| Flammability of Aerosol Products:                   | > 18 in (ASTM D 3065)                                                                                                                                                                                                                    |
| NFPA 30B flammability:                              | Level 2 Aerosol                                                                                                                                                                                                                          |
| Lower explosion limit:                              | 3.4 %(V)<br>The product has not been tested. The statement has been derived from the properties of the individual components.                                                                                                            |
| Upper explosion limit:                              | 18 %(V)<br>The product has not been tested. The statement has been derived from the properties of the individual components.                                                                                                             |
| Autoignition:                                       | 350 °C<br>Information applies to the solvent.                                                                                                                                                                                            |
| Density:                                            | approx. 0.86 g/cm <sup>3</sup><br>( 20 °C)                                                                                                                                                                                               |
| Vapour density:                                     | not applicable                                                                                                                                                                                                                           |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable                                                                                                                                                                                                                           |
| Thermal decomposition:                              | carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide<br>Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat. |
| Viscosity, dynamic:                                 | 0.99 mPa.s<br>( 20 °C)                                                                                                                                                                                                                   |
| Solubility in water:                                | slightly soluble                                                                                                                                                                                                                         |
| Evaporation rate:                                   | not applicable                                                                                                                                                                                                                           |
| Other Information:                                  | If necessary, information on other physical and chemical parameters is indicated in this section.                                                                                                                                        |

### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.



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### Possibility of hazardous reactions

The product is chemically stable.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

### Incompatible materials

No substances known that should be avoided.

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

#### Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

No mortality was observed.

#### Inhalation

Type of value: LC50

Species: rat

Value: > 7.4 mg/l

Type of value: LC50

Species: rat

Value: > 2.1 mg/l

No mortality was observed.

#### Dermal

Type of value: LD50

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Species: rat  
Value: > 2,000 mg/kg  
No mortality was observed.

### Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness). Causes temporary irritation of the respiratory tract.

The product has not been tested. The statement has been derived from the properties of the individual components.

### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Not irritating to the skin.

### Skin

Species: rabbit  
Result: non-irritant

### Eye

Species: rabbit  
Result: Irritant.

### Sensitization

Assessment of sensitization: No sensitizing effect.

Species: guinea pig  
Result: Non-sensitizing.

### Aspiration Hazard

May also damage the lung at swallowing (aspiration hazard). The product has not been tested. The statement has been derived from the properties of the individual components.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: n-Octyl bicycloheptene dicarboximide*

*Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.*

*Information on: Piperonylbutoxide*

*Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses. Repeated dermal uptake of the substance did not cause substance-related effects.*

*Information on: carbon dioxide*

*Assessment of repeated dose toxicity: Prolonged or repeated exposure by inhalation to high concentrations may cause circulatory insufficiency leading to headache, nausea, vomiting and potentially death.*

-----

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### Genetic toxicity

Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

### *Information on: pyrethrum*

*Assessment of carcinogenicity: The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.*

*Not Likely to Be Carcinogenic to Humans.*

### *Information on: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-*

*Assessment of carcinogenicity: Not classified, due to lack of data. Not listed as a carcinogen by OSHA, IARC, & NTP.*

### *Information on: n-Octyl bicycloheptene dicarboximide*

*Assessment of carcinogenicity: In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was observed. The induction of tumors in animal studies was due to a reversible, nongenotoxic effect for which a threshold dose can be derived.*

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

### Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

### Other Information

Misuse can be harmful to health.

Has a degreasing effect on skin.

---

## 12. Ecological Information

### **Toxicity**

#### Toxicity to fish

##### *Information on: pyrethrum*

*LC50 (96 h) 0.0052 mg/l, Oncorhynchus mykiss (static)*

*LC50 (96 h) 0.01 mg/l, Lepomis macrochirus*

##### *Information on: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-*

*LC50 3.49 mg/l, Cyprinodon variegatus*

*LC50 1.9 mg/l, Oncorhynchus mykiss*

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*Information on: dimethyl ether*  
-----

### Toxicity to fish

*Information on: Piperonylbutoxide*

LC50 (96 h) 3.49 mg/l, *Cyprinodon variegatus* (OECD Guideline 203, Flow through.)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

*Information on: n-Octyl bicycloheptene dicarboximide*

LC50 (96 h) 2.4 mg/l, *Lepomis macrochirus* (other, Flow through.)

LC50 (96 h) 1.4 mg/l, *Oncorhynchus mykiss* (other, Flow through.)

*Information on: Pyrethrins*

LC50 (96 h) 0.0052 mg/l, *Oncorhynchus mykiss*  
-----

### Aquatic invertebrates

*Information on: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-*

LC50 0.51 mg/l, *Gammarus fasciatus*

LC50 0.49 mg/l, *Mysidopsis bahia*

*Information on: dimethyl ether*  
-----

### Aquatic invertebrates

*Information on: Piperonylbutoxide*

EC50 (48 h) 0.51 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, Flow through.)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

No observed effect concentration (28 d) 0.063 mg/l, aquatic arthropod (other)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Limit concentration test only (LIMIT test).

*Information on: n-Octyl bicycloheptene dicarboximide*

EC50 (48 h) 2.3 mg/l, *Daphnia magna* (other, Flow through.)

*Information on: Pyrethrins*

EC50 (96 h) 0.0014 mg/l, *Mysidopsis bahia*  
-----  
-----

### Aquatic plants

*Information on: Piperonylbutoxide*

EC50 (72 h) 3.89 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

No observed effect concentration (72 h) 0.824 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

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### Chronic toxicity to fish

*Information on: Piperonylbutoxide*

*No observed effect concentration (35 d) 0.18 mg/l, Pimephales promelas (OPP 72-4 (EPA-Guideline), Flow through.)*

*The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*Information on: Pyrethrins*

*No observed effect concentration 0.0019 mg/l, Pimephales promelas*

### Chronic toxicity to aquatic invertebrates

*Information on: Piperonylbutoxide*

*No observed effect concentration (21 d) 0.03 mg/l, Daphnia magna (OPP 72-4 (EPA-Guideline), Flow through.)*

*The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*Information on: Pyrethrins*

*No observed effect concentration (28 d) 0.00086 mg/l, Daphnia magna*

## **Persistence and degradability**

### Assessment biodegradation and elimination (H<sub>2</sub>O)

The product has not been tested. The statement has been derived from the properties of the individual components.

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

### Bioaccumulation potential

*Information on: Piperonylbutoxide*

*Bioconcentration factor: 91 - 380 (28 d), Lepomis macrochirus (OECD Guideline 305 E)*

*Information on: Pyrethrins*

*Bioconcentration factor: 471*

*Accumulation in organisms is not to be expected.*

## **Mobility in soil**

### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

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*Information on: Piperonylbutoxide*

*Adsorption to solid soil phase is not expected.*

*Information on: n-Octyl bicycloheptene dicarboximide*

*The substance will not evaporate into the atmosphere from the water surface.*

*Adsorption to solid soil phase is expected.*

*Information on: Pyrethrins*

*Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

---

### 13. Disposal considerations

#### **Waste disposal of substance:**

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **Container disposal:**

Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

---

### 14. Transport Information

#### **Land transport**

USDOT

|                       |           |
|-----------------------|-----------|
| Hazard class:         | 2.1       |
| ID number:            | UN 1950   |
| Hazard label:         | 2.1, EHSM |
| Proper shipping name: | AEROSOLS  |

#### **Sea transport**

IMDG

|                       |                                                |
|-----------------------|------------------------------------------------|
| Hazard class:         | 2.1                                            |
| ID number:            | UN 1950                                        |
| Hazard label:         | 2.1, EHSM                                      |
| Marine pollutant:     | YES                                            |
| Proper shipping name: | AEROSOLS (contains DIMETHYLETHER, PYRETHRIN 1) |

#### **Air transport**

IATA/ICAO

|                       |                     |
|-----------------------|---------------------|
| Hazard class:         | 2.1                 |
| ID number:            | UN 1950             |
| Hazard label:         | 2.1                 |
| Proper shipping name: | AEROSOLS, FLAMMABLE |

#### **Further information**

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

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### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Crop Protection TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

##### **EPCRA 313:**

###### CAS Number

51-03-6

###### Chemical name

Piperonylbutoxide

###### CERCLA RQ

5000 LBS

100 LBS

1 LBS

###### CAS Number

67-64-1

115-10-6; 64742-

47-8

8003-34-7

###### Chemical name

Acetone

dimethyl ether; Distillates (petroleum), hydrotreated light

Pyrethrins

#### State regulations

##### State RTK

PA

NJ

##### CAS Number

67-64-1

115-10-6

124-38-9

67-64-1

115-10-6

124-38-9

51-03-6

##### Chemical name

Acetone

dimethyl ether

carbon dioxide

Acetone

dimethyl ether

carbon dioxide

Piperonylbutoxide

##### **NFPA Hazard codes:**

Health: 1

Fire: 3

Reactivity: 1

Special:

#### **Labeling requirements under FIFRA**

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

EXTREMELY FLAMMABLE.

KEEP OUT OF REACH OF CHILDREN.

Hazards to humans and domestic animals.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Aerosol container contains flammable gas under pressure.

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2023/12/22

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

---

END OF DATA SHEET





**Nature-Cide**

# INSECTICIDAL DUST

**Use for the elimination of multiple Indoor and Outdoor pests\*. This product kills on contact.**

*\*See back panel for complete list of pests.*

**ACTIVE INGREDIENTS:**

|                         |                |
|-------------------------|----------------|
| Geraniol .....          | 8.40%          |
| Cornmint Oil .....      | 0.10%          |
| OTHER INGREDIENTS*..... | 91.50%         |
| <b>TOTAL .....</b>      | <b>100.00%</b> |

\*Diatomaceous Earth, Sodium Bicarbonate, Calcium Silicate and Calcium Carbonate

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

SEE BACK PANEL FOR FIRST AID AND  
ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT: 1 POUND

Nature-Cide Insecticidal Dust kills bed bugs, fire ants, fleas (egg, larval and adult stages), German cockroaches, house flies, Pharaoh ants and ticks (nymph and adult stages). Repels all stages of fleas and ticks (nymph and adult stages) for up to 11 weeks. Nature-Cide Insecticidal Dust can be used indoors on carpet, upholstery, pet bedding and outdoors on exterior walls where listed pests enter.

**DIRECTIONS FOR USE:** Read entire label prior to use; use as directed. Shake well before each use. Apply only to dry surfaces. Prior to any large area application, test a small, inconspicuous area and check later for any adverse effects. Apply in and around areas where insects may be crawling, hiding or living. The amount to apply varies depending upon infestation severity. Suggested application rate is 1-2 oz per 100 sq ft of surface area. For added control, simultaneously treat pets with Nature-Cide Flea & Tick Insecticide before reentry into treated areas.

**INDOOR TREATMENTS:** Apply more powder to areas where pets spend most of their time. Focus heavier treatments where dogs land as they jump off beds and elevated resting areas. **Pet Bedding:** Regularly dust pet bedding, kennel and sleeping areas. Reapply every 2-11 weeks year-round, or as needed, to maintain pest control and help reduce the reoccurrence of fleas and ticks. After multiple uses, discard pet bedding or launder to avoid dust buildup. **Carpets:** Brush lightly with a broom to force powder deep into carpet where fleas and their larvae exist. Wait at least one hour before lightly vacuuming to remove powder visible on carpet surface. For maximum efficacy, and when applying at lower rates, delay vacuuming for 24 hours. **Carpet Edges and Furniture:** Powder may also be applied under the edges of carpeting around the tack strip that holds the carpet tight against the walls. For bed bugs, additional areas may be treated such as the cracks of bed frames, headboards and other furniture. Do not treat bed mattresses. Wipe away excess dust with a damp cloth to ensure your applications are inaccessible to future human/pet contact. Do not apply this product into electronic equipment (TVs, radios, computers, etc.). **Upholstery:** Remove loose cushions. Sprinkle along creases and into corners. Use a brush to lightly work powder into folds and creases. If excess powder adheres to a spot, brush out and remove with a vacuum. **Note:** Use caution when disposing/emptying vacuum bags to avoid breathing dust. Gently place in plastic bag and tie tightly to avoid disturbing dust then discard in trash.

**OUTDOOR TREATMENTS:** Many pest species enter buildings through exterior walls or relocate through interior adjoining walls. It is critical to properly treat these walls to kill those overwintering and translocating species. Treat walls by removing outlets and switch plate covers; puffing a light coating of dust into wall voids (not into boxes) thus layering a light dust onto the tops of electrical cables (a common traffic area). Also puff treatments into external cracks and crevices around window/door frames; common entrances for pests.

**PRECAUTIONARY STATEMENTS:** May be harmful if swallowed. Avoid breathing dust. May cause slight eye irritation. May cause allergic reaction in some individuals/pets. **FIRST AID: If in Eyes:** Immediately rinse eyes with plenty of water, including under eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. **If on Skin:** Thoroughly wash with soap and water. **If Inhaled:** Move to fresh air. **If Swallowed:** Immediately rinse mouth and drink plenty of water. In all cases, if irritation persists, call a poison control center (1-800-222-1222) or doctor for emergency medical treatment information. **Storage and Disposal:** Store in original, tightly closed container in a cool, dry place inaccessible to children and pets. Nonrefillable container; do not reuse or refill this container. Recycle empty container, or discard in trash.

This product has not been registered by the United States Environmental Protection Agency. Pacific Shore Holdings, Inc. represents that this product qualifies for exemption from registration under FIFRA Section 25(b).

Nature-Cide Insecticidal Dust is a Pacific Shore Holdings, Inc. product. Distributed By: Pacific Shore Holdings, Inc. 8236 Remmet Ave. Canoga Park, CA 91304. Customer Service: customerservice@nature-cide.com or 877-248-0488; nature-cide.com



MADE IN THE U.S.A.





## Nature-Cide® Insecticidal Dust

• KILLS BED BUGS, FIRE ANTS, FLEAS (EGG, LARVAL AND ADULT STAGES), GERMAN COCKROACHES, HOUSE FLIES, PHARAOH'S ANTS AND TICKS (NYMPH AND ADULT STAGES)

Repels, for up to 11 weeks, Brown dog ticks and Cat fleas when applied at a rate of 5.5 oz to 12.8 oz/500 sq. ft.

### Active Ingredients:

|                          |              |
|--------------------------|--------------|
| Geraniol .....           | 8.4%         |
| Cornmint Oil .....       | 0.1%         |
| Inert Ingredients* ..... | <u>91.5%</u> |
| Total .....              | 100.0%       |

\*Diatomaceous Earth, Sodium Bicarbonate, Calcium Silicate and Calcium Carbonate

**PRECAUCION AL USARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente. (TO THE USER: IF you cannot read English, do not use this product until the label has been fully explained to you.)

## KEEP OUT OF REACH OF CHILDREN

### PRECAUTIONARY STATEMENTS

May be harmful if swallowed. May cause slight eye irritation.

If in Eyes: Immediately rinse eyes with plenty of water, including under eyelids. If on Skin: Thoroughly wash with soap and water. If Inhaled: Move to fresh air. If Swallowed: Immediately rinse mouth and drink plenty of water. In all cases, if irritation persists, call a physician or 1-800-222-1222 for emergency medical treatment information.

**This product has not been registered by the United States Environmental Protection Agency. Nature-Cide® represents that this product qualifies for exemption from registration under FIFRA Sec. 25(b).**

**Distributed by:**

Pacific Shore Holdings, Inc.

8236 Remmet Ave

Canoga Park, CA 91304

818-998-0996

**Made in the U.S.A.**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **IMPORTANT:** Read the entire Directions for Use, Precautions and Disclaimer of Warranties before using this product.

**STORAGE AND DISPOSAL**

Do not contaminate water, feed or food by storage or disposal.

**Storage:** Store product in original container in a cool, dry, locked place out of reach of children.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

**Container Disposal:** (For Homeowner) Non-refillable container.

Nature-Cide® Insecticidal Dust is a ready-to-use insecticidal dust which exhibits effective knockdown and residual control against the pests listed when used according to label directions. Nature-Cide® Insecticidal Dust can be used for listed residual pest control in and on buildings and structures and their immediate surroundings.

Permitted areas of use include but are not limited to:

- |                               |                                |
|-------------------------------|--------------------------------|
| *aircraft                     | *mausoleums                    |
| *animal quarters/kennels      | *meat slaughtering and         |
| *apartment buildings          | packing plants                 |
| *bakeries                     | *mobile homes and recreational |
| *breweries                    | vehicles                       |
| *buses                        | *nursing homes/day care        |
| *canneries                    | centers                        |
| *cafeterias                   | *rail cars                     |
| *dairies                      | *restaurants                   |
| *food/feed manufacturing,     | *schools                       |
| processing and service        | *sewers and underground        |
| establishments                | tunnels                        |
| *greenhouses (non-commercial) | *stores and institutions       |
| *grocery stores and           | *supermarkets                  |
| supermarkets                  | *telecommunication conduits    |
| *hospitals                    | *theaters                      |
| *hotels/motels                | *trucks and trailers           |
| *houses                       | *utility vaults and conduits   |
| *industrial buildings and     | *vessels                       |
| installations                 | *warehouses                    |
| *laboratories                 | *zoos                          |

Nature-Cide® Insecticidal Dust is intended for applications with hand or power duster, with a paint brush or by other suitable means, to hiding and runway areas and other places where insects are found. In living areas,

make applications in such a manner as to avoid depositions on exposed surfaces or introducing the material into the air. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

To apply Nature-Cide® Insecticidal Dust directly into cracks and crevices, use a bulbous duster or other suitable equipment. Apply lightly and uniformly to infested area. Pay particular attention to cracks and crevices; service ducts; false floors and ceilings; wall voids; around electrical and telephone fittings and equipment; around water and sewer pipes; under and behind cabinets, refrigerators and sinks; around windows and door frames; along baseboards; in attics and crawl spaces. The amount to be applied will vary with the site but should usually be in the range of 2 - 3 grams of Nature-Cide® Insecticidal Dust per square yard (or 0.5 lbs per 1000 square feet).

## **INDOOR USE**

### **FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS**

Nature-Cide® Insecticidal Dust applications are permitted in both food/feed and non-food areas of food/feed handling establishments as a general surface, spot, or crack and crevice treatment. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

**Non-Food/Non-Feed Areas:** Examples of non-food/non-feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling).

**General Surface Application:** Do not apply as a general surface application in the food/feed handling areas of the facility, when the facility is in operation or foods are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

**Crack, Crevice and Spot Application:** Crevice and or Spot applications may be made while the facility is in operation provided exposed food is covered or removed from area being treated prior to application. Do not apply directly to food or food handling surfaces. Nature-Cide® Insecticidal Dust may also be applied as a void treatment using suitable equipment, as mentioned above. Be sure to thoroughly treat service ducts, false floors and ceilings, wall voids, attics and crawl spaces. The amount of dust to be applied will vary with the site but should usually be in the range of 2 - 4 grams per square yard (or 0.5 lbs per 1000 square feet). Dust applications should be made in a manner to avoid deposits in exposed surfaces introducing the material that could cause it to go airborne.

**ANTS, COCKROACHES, FLEAS:** Apply Nature-Cide® Insecticidal Dust thoroughly to all areas where these pests crawl and hide, especially in those areas described above. For ants, apply to ant trails, around doors and windows and other places where ants enter premises or are troublesome.

**BEDBUGS:** Apply Nature-Cide® Insecticidal Dust thoroughly to all areas where these pests are typically found including: folds and tufts of mattresses, coils of springs, cracks and hollow posts of bed frames, upholstery of chairs and sofas, picture frame moldings and all cracks and crevices in the room should be treated. Allow powder to remain in contact

with folds and tufts of mattresses, chair and sofa upholstery for 4 - 6 hours, then thoroughly vacuum these treated areas, dispose of vacuum bag and place clean linens on bed. Also vacuum treated areas that will come into direct contact with humans and pets.

## **OUTDOOR USE**

**PERIMETER TREATMENT:** Use Nature-Cide® Insecticidal Dust as a residual treatment for control of **ants, cockroaches, fleas and ticks**.

Make a residual treatment around windows and doors, porches, screens, eaves, patios, garages, under stairways, in crawl spaces and other areas where pests hide. To help prevent the invasion of buildings and structures by these pests, apply thoroughly and uniformly to the foundation and crawl spaces where pests are active and may find entrance.

**SEWER TREATMENT:** Cockroach infestations in sanitary sewers may be treated with Nature-Cide® Insecticidal Dust to provide quick knockdown and short-term population suppression. When treating sewers, one manhole per 200 linear feet should be treated. Treatments are made by removing the manhole cover and replacing with a disc of plywood bored to receive the typical flexible hose from portable or truck-mounted ventilating equipment. Apply 1-2 ounces of dust into the ventilating air to be dispersed quickly and thoroughly through the system.

**TELECOMMUNICATION TREATMENT:** Apply Nature-Cide® Insecticidal Dust into telecommunication conduits, cracks and crevices, junction boxes, etc. using suitable application equipment (such as bulb Duster, or other types of application equipment capable of applying the proper amount). The amount of Nature-Cide® Insecticidal Dust to be applied will vary, but should usually be approximately 1 to 2 grams of dust per cubic foot of conduit.

**FIRE ANTS:** Apply Nature-Cide® Insecticidal Dust with a shaker can. Thoroughly apply to adequately cover mound and around the perimeter



(18" to 24" from the outer edge of the mound). A second treatment may be necessary if complete control is not obtained on first treatment. DO NOT DISTURB THE MOUND PRIOR TO APPLICATION. If possible, treat all colonies in the vicinity. Also, treat colonies which have not yet constructed a mound.

**FLEAS AND TICKS IN RODENT BURROWS:** To control fleas and ticks in and around rodent burrows around homes and other buildings, apply Nature-Cide® Insecticidal Dust with a shaker can. For prairie dogs thoroughly treat quarantine areas and holding areas as well as burrows in open fields. Thoroughly apply dust to adequately cover mound and around the perimeter (18" to 24" from the outer edge). Be sure to treat abandoned rodent burrows which are suspected of containing fleas and ticks. Treat for a minimum of 5 days for minimal rodent populations, 10 days when populations are larger. Apply as needed for control.

#### **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use as well as other factors beyond Nature-Cide® or Pacific Shore Holdings, Inc. direct control, it is impossible for Nature-Cide® or Pacific Shore Holdings, Inc. to eliminate the many risks associated with the use of this product. As a result, crop injury or ineffectiveness is always a possibility. All risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** Nature-Cide® or Pacific Shore Holdings, Inc. MAKES NO OTHER WARRANTIES, EXPRESS OR

IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL.

No agent of Nature-Cide® or Pacific Shore Holdings, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Nature-Cide® or Pacific Shore Holdings, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT Nature-Cide® or Pacific Shore Holdings, Inc. ELECTION, THE REPLACEMENT OF PRODUCT.

Nature-Cide® Insecticidal Dust is a Pacific Shore Holdings, Inc. product.

**Distributed By:**

Pacific Shore Holdings, Inc.  
8236 Remmet Ave.  
Canoga Park, CA 91304.  
818-998-0996

**Customer Service:**

info@pac-sh.com  
877-248-0488  
nature-cide.com

**MADE IN U.S.A.**

# Safety Data Sheet

**Nature-Cide®**

According to OSHA HCS (29 CFR § 1910.1200(g)) as Published in the Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012

## 1 IDENTIFICATION

### Product Identifier:

Product Name: Nature-Cide Insecticidal Dust  
Product Code: None  
Formula Number: 050515-3-A-SNE  
Synonyms: N/A: Product is a proprietary herbal powder mixture.

### Distributor Information:

Pacific Shore Holdings, Inc.  
8236 Remmet Avenue  
Canoga Park, CA 91304

Toll Free: (877) 248-0488  
Phone: (818) 998-0996  
Fax: (818) 885-9874  
Email: info@pac-sh.com  
Website: nature-cide.com

**Emergency Phone Numbers:** (800) 222-1222

### Recommended Use:

This product is an insecticidal powder.

### Use Restrictions:

Use only according to label directions and precautionary statements.

## 2 HAZARDS IDENTIFICATION

**Hazard Classification:** This mixture is not considered hazardous by the 2012 OSHA Communication Standard (29 CFR 1910.1200).  
**Precautionary Statements:** None required.  
**Hazards Not Otherwise Classified:** Not applicable.  
**Unknown Toxicity:** 75% of the mixture consists of ingredient(s) of unknown toxicity.  
**Other Information:** May be harmful if swallowed; may cause slight eye irritation.  
**Hazard Statements:** None required.  
**Interactions with Other Chemicals:** No information available.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Active Ingredients:** 8.4% Geraniol (CAS No. 106-24-1) and 0.1% Cornmint Oil (CAS No. 68917-18-0)

**Inert Ingredients:** 91.5% Proprietary mixture of Diatomaceous Earth (CAS No. 61790-53-2), Sodium Bicarbonate (CAS No. 144-55-8), Calcium Silicate (CAS No. 1344-95-2) and Calcium Carbonate (CAS No. 471-34-1).

Exact percentages of Inert Ingredients are withheld as a trade secret.

## 4 FIRST-AID MEASURES

**Eye Contact:** Thoroughly rinse with plenty of water, also under the eyelids.  
**Skin Contact:** Wash with soap and water.  
**Inhalation:** Move to fresh air.  
**Ingestion:** Immediately rinse mouth and drink plenty of water. Do not give anything by mouth to an unconscious person.  
**Note to Physician:** Treat symptomatically.  
In all cases, contact a physician or poison control center if irritation or symptoms persist.

# Safety Data Sheet

**Nature-Cide®**

According to OSHA HCS (29 CFR § 1910.1200(g)) as Published in the Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012

## 5 FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use measures that are appropriate to local circumstances and the surrounding environment.**Unsuitable Extinguishing Media:** CAUTION: Use of water spray when fighting fire may be inefficient.**Specific Hazards Arising from this Mixture:** No information available.**Uniform Fire Code:** COMBUSTIBLE DUST/POWDER**Hazardous Combustion Product(s):** Carbon oxides**Sensitivity to Mechanical Impact:** No.**Sensitivity to Static Discharge:** No.**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes.**Environmental Precautions:** Refer to protective measures listed in Sections 7 and 8.**Containment Methods:** Prevent further leakage or spillage if safe to do so.**Cleanup Methods:** Pick up and transfer to properly labeled containers.

## 7 HANDLING AND STORAGE

**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing.**Storage Recommendations:** Store in original, tightly closed container. Keep away from children.**Incompatible Products:** None known.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters - Exposure Guidelines

| Chemical Name         | ACGIH TLV                                                                                                           | OSHA PEL                                                                                                                                                                                | NIOSH IDLH                                                                    |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Supplier Trade Secret | -                                                                                                                   | (vacated) TWA: 6 mg/m <sup>3</sup> <1% Crystalline silica: (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA TWA: 20 mppcf                                                               | TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 10 mg/m <sup>3</sup> total dust |
| Supplier Trade Secret | TWA: 10 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica synthetic nonfibrous | TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust |
| Supplier Trade Secret | -                                                                                                                   | TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>                                                               | TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 10 mg/m <sup>3</sup> total dust |

ACGIH TLV: American Conference of Governmental Industrial Hygienists Threshold Limit Value; OSHA PEL: Occupational Safety and Health Administration Permissible Exposure Limits; NIOSH IDLH: National Institute of Occupational Safety and Health Immediately Dangerous to Life or Health.

**Other Exposure Guidelines:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 995 F.2d 962 (11<sup>th</sup> Cir., 1992).**Appropriate Engineering Controls – Engineering Measures:** Showers; eyewash stations; ventilation systems.**Individual Protection Measures – Personal Protective Equipment:****Eye/Face:** No special protective equipment required.**Skin/Body:** No special protective equipment required.**Respiratory:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

# Safety Data Sheet

**Nature-Cide®**

According to OSHA HCS (29 CFR § 1910.1200(g)) as Published in the Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                   |                                         |                      |
|----------------------------------|-------------------|-----------------------------------------|----------------------|
| Auto-ignition temperature:       | N/A               | Partition coefficient: n-octanol/water: | N/D                  |
| Color:                           | Off-white         | pH:                                     | N/A                  |
| Decomposition temperature:       | N/D               | Physical state:                         | Powder               |
| Evaporation rate:                | N/D               | Relative density:                       | N/D                  |
| Flammability (solid,gas):        | Not flammable     | Solubility(ies):                        | N/A                  |
| Flash point:                     | N/A               | Upper/lower explosive limits:           | N/A                  |
| Freezing point:                  | N/A               | Upper/lower flammability limits:        | N/A                  |
| Initial boiling point and range: | N/A               | Vapor pressure:                         | N/D                  |
| Melting point:                   | N/D               | Viscosity:                              | N/A                  |
| Odor:                            | Mild herbal aroma | N/A = Not Applicable                    | N/D = Not Determined |

## 10 STABILITY AND REACTIVITY

|                                     |                                              |
|-------------------------------------|----------------------------------------------|
| Reactivity:                         | No data available.                           |
| Chemical Stability:                 | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions: | None under normal processing.                |
| Hazardous Polymerization:           | Does not occur.                              |
| Conditions to Avoid:                | None known.                                  |
| Incompatible Materials:             | None known.                                  |
| Hazardous Decomposition Products:   | Carbon oxides.                               |

## 11 TOXICOLOGICAL INFORMATION

No toxicological data are available for this mixture. Likely routes of exposure are through inhalation and accidental eye/skin contact. Mild immediate effects, such as irritation or redness, may occur. No delayed or chronic effects due to exposure are expected from either short- or long-term exposure. Contains a suspected carcinogen ingredient.

### Component Information

| Chemical Name         | Oral LD50          | Dermal LD50 | Inhalation LD50 |
|-----------------------|--------------------|-------------|-----------------|
| Supplier Trade Secret | = 3400 mg/kg (Rat) | -           | -               |
| Supplier Trade Secret | = 6450 mg/kg (Rat) | -           | -               |

### Carcinogenicity

| Chemical Name         | ACGIH | IARC    | NTP | OSHA |
|-----------------------|-------|---------|-----|------|
| Supplier Trade Secret |       | Group 3 |     | X    |

IARC: International Agency for Research on Cancer; Group 3: Not classified as to carcinogenicity to humans; OSHA: Occupational Safety and Health Administration of the U.S. Department of Labor; X: Present.

### Numerical Measures of Toxicity – Product Information:

The following value is calculated based on Chapter 3.1 of the GHS document: ATEmix (oral): 3903 mg/kg

## 12 ECOLOGICAL INFORMATION (NON-MANDATORY)

### Exotoxicity

No environmental impact data are available for this mixture.

| Chemical Name         | Toxicity to Algae | Toxicity to Fish                                    | Toxicity to Microorganisms | <i>Daphnia magna</i> (water flea) |
|-----------------------|-------------------|-----------------------------------------------------|----------------------------|-----------------------------------|
| Supplier Trade Secret |                   | 72h LC50 > 10000 mg/L<br>( <i>Cyprinus carpio</i> ) |                            | X                                 |

# Safety Data Sheet

**Nature-Cide®**

According to OSHA HCS (29 CFR § 1910.1200(g)) as Published in the Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012

## 13 DISPOSAL CONSIDERATIONS (NON-MANDATORY)

**Disposal Methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging:** Dispose of contents/containers in accordance with local regulations.

This product contains a substance listed with the State of California as a Toxic Hazardous Waste.

## 14 TRANSPORT INFORMATION (NON-MANDATORY)

This product is not regulated for transport.

## 15 REGULATORY INFORMATION (NON-MANDATORY)

This product has not been registered by the United States Environmental Protection Agency. The company identified in Section 1 represents that this product qualifies for exemption from registration under FIFRA Sec. 25(b).

**International Inventories:** **TSCA:** Complies **DSL:** All components are listed either on the DSL or NDSL  
**TSCA:** United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL:** Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations:

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 ("SARA"). This product does not contain any chemicals that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**CWA (Clean Water Act):** This product does not contain any substances regulated as pollutants pursuant to the CWA (40 CFR 122.21 and 122.42).

**CERCLA (Comprehensive Environmental Response Compensation and Liability Act):** This material does not contain any substances regulated as hazardous under CERCLA (40 CFR 302).

**SARA (Superfund Amendments and Reauthorization Act):** This material does not contain any substances regulated as hazardous under SARA (40 CFR 355).

There may be specific requirements at the local, regional or state level pertaining to releases of this material.

### U.S. State Regulations:

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

| Chemical Name         | Illinois | Massachusetts | New Jersey | Pennsylvania | Rhode Island |
|-----------------------|----------|---------------|------------|--------------|--------------|
| Supplier Trade Secret | X        |               | X          |              |              |
| Supplier Trade Secret |          | X             | X          | X            |              |
| Supplier Trade Secret |          |               | X          |              |              |

### International Regulations:

### Mexico National Occupational Exposure Limits

| Chemical Name         | Carcinogen Status | Exposure Limits                                                       |
|-----------------------|-------------------|-----------------------------------------------------------------------|
| Supplier Trade Secret |                   | Mexico TWA: 10 mg/m <sup>3</sup>                                      |
| Supplier Trade Secret |                   | Mexico TWA: 10 mg/m <sup>3</sup>                                      |
| Supplier Trade Secret |                   | Mexico TWA: 10 mg/m <sup>3</sup><br>Mexico STEL: 10 mg/m <sup>3</sup> |

Mexico – Occupational Exposure Limits – Carcinogens

# Safety Data Sheet

**Nature-Cide®**

According to OSHA HCS (29 CFR § 1910.1200(g)) as Published in the Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012

Canada WHMIS Class: Not Determined

## 16 OTHER INFORMATION

|       |                   |                 |                |                                                      |
|-------|-------------------|-----------------|----------------|------------------------------------------------------|
| NFPA: | Health Hazards: 0 | Flammability: 0 | Instability: 0 | Physical and Chemical Hazards-Personal Protection: X |
| HMIS: | Health Hazards: 1 | Flammability: 0 | Instability: 0 | Physical and Chemical Hazards-Personal Protection: X |

### SDS Information:

|                |            |
|----------------|------------|
| Number:        | 050515     |
| Date Prepared: | 01/01/2025 |
| Version:       | 1          |

### DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, process, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific designated material and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET



Health Emergencies: INFOTRAC® (800) 535-5053

## 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** Niban-FG® Fine Granular Bait

**Recommended use of the chemical and restrictions on use:** A weather/moisture resistant bait to kill and control ants (except fire ants), carpenter ants, cockroaches, crickets, mole crickets, earwigs, silverfish, snails, and slugs. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 03/15/2020

## 2. HAZARDS IDENTIFICATION

**GHS Classification:**

| Physical      | Health                                                                                        | Environment                       |
|---------------|-----------------------------------------------------------------------------------------------|-----------------------------------|
| Not Hazardous | Acute Toxicity Oral Category 4<br>Specific Target Organ Toxicity – Repeat Exposure Category 2 | Aquatic Acute Toxicity Category 3 |

**GHS Label Elements:** TE

None Required

**Statements of Hazard**      **Precautionary Statements**  
None Required      None Required

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                | CAS No.     | Amount |
|--------------------------|-------------|--------|
| Boric Acid               | 10043-35-3  | 5%     |
| Non-Hazardous Ingredient | Proprietary | 95%    |

The exact formulation is being withheld as a trade secret.

## 4. FIRST AID MEASURES

**Eye:** Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.

**Ingestion:** Do not induce vomiting unless directed to do so by a medical professional. Get medical attention for large ingestions or if symptoms develop or if you feel unwell.

**Inhalation:** Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

**Most important Symptoms:** May cause eye and skin irritation. Inhalation of dust may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is required for large ingestions.

## 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire.

**Specific hazards arising from the chemical:** Fine particles may present an explosion hazard if suspended in air. Burning may produce carbon monoxide and carbon dioxide.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain runoff.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Wear appropriate protective clothing as described in Section 8. Do not apply directly to water or contaminate water.

**Methods and Materials for Containment and Cleaning Up:** Collect and place in appropriate containers for disposal. Avoid generating dust. Clean spill area thoroughly. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes, skin and clothing. Avoid breathing dusts. Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling. Wash thoroughly after using and change into clean clothing. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Keep containers closed when not in use. Refer product label for additional information on use and handling.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a dry area away from incompatible materials. Do not store where children or animals may gain access.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

|            |                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------|
| Boric Acid | 2 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable)<br>6 mg/m <sup>3</sup> STEL ACGIH TLV (inhalable) |
|------------|-------------------------------------------------------------------------------------------------|

**Engineering Controls:** Use with adequate ventilation to maintain exposure levels below the occupational exposure limits. Refer product label for additional information.

**Respiratory Protection:** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

**Skin Protection:** Use gloves for normal application of this product.

**Eye Protection:** Wear safety glasses to prevent eye contact.

**Other:** Wear long-sleeve shirts, long pants, socks and shoes when using this product. Suitable washing facilities should be available in the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Brown, granular particles with no odor.

**Physical State:** Granular particles      **Odor Threshold:** Not established

**Vapor Density:** Not determined

**Initial Boiling Point/Range:** Not determined

**Solubility In Water:** Not soluble      **Vapor Pressure:** Negligible

**Relative Density:** 0.62 of water      **Evaporation Rate:** N/A

**Melting/Freezing Point:** N/A      **pH:** N/A

**Percent Volatile:** Minimal      **Octanol/Water Coefficient:** N/A

**Solubility:** Not soluble      **Decomposition Temperature:** N/A

**Viscosity:** N/A

**Flammability (solid, gas):** Fine dust may form explosive mixtures in air

**Flashpoint:** >451°F (233°C) TOC      **Autoignition Temperature:** None

**Flammable Limits:** LEL: Not determined      UEL: N/A



## 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Avoid generating fine dust.

**Incompatible Materials:** None known

**Hazardous Decomposition Products:** When heated to decomposition emits carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** May be harmful if large quantities are ingested.

**Inhalation:** Inhalation of dust may cause irritation of the nose, throat and upper respiratory tract.

**Eye:** May cause slight irritation.

**Skin:** Not expected to cause irritation.

**Chronic:** Borates have been shown to have some chronic toxicity in animals fed high doses, but this has not been found in humans.

**Sensitization:** This material is not expected to cause sensitization.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Germ Cell Mutagenicity:** No data available

**Reproductive Toxicity:** Borates have been found to have some reproductive toxicity in animals, but this has not been found in humans.

### Numerical Measures of Toxicity:

#### Product Toxicity Data:

Oral rat LD<sub>50</sub>: >5000 mg/kg; Dermal rabbit LC<sub>50</sub>: >5050 mg/kg

## 12. ECOLOGICAL INFORMATION

This product breaks down naturally in the environment to provide organic matter and boron micro nutrients. Boron occurs naturally in sea water at an average concentration of 5 mg B/l and fresh water at 1 mg B/l or less. In dilute aqueous solutions the predominant boron species present is undissociated boric acid.

### Ecotoxicity:

EC<sub>10</sub> Green Algae: 24 mg B/l; LC<sub>50</sub> *Daphnia magna*: 530 mg B/l/96 hr; LC<sub>50</sub> Dab: 74 mg B/l/48hr; LC<sub>50</sub> Rainbow Trout: 88 mg B/l/24hr; LC<sub>50</sub> Goldfish: 71 mg B/l/72hr

**Persistence and Degradability:** Boron is naturally occurring and ubiquitous in the environment. Niban-FG decomposes in the environment to natural borate.

**Bioaccumulative Potential:** Not determined.

**Mobility in Soil:** Boric acid is soluble in water and is leachable through normal soil.

**Other Adverse Effects:** Some plants are sensitive to boron. This product is designed to be used for certain types of insects. Use product only as directed on the label. See product label for full instructions and restrictions on use.

## 13. DISPOSAL CONSIDERATION

Dispose in accordance with local, state and federal environmental regulations. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Non-refillable container: do not reuse or refill this container. Completely empty container into application equipment, then offer for recycling, if available; otherwise dispose of empty container in a sanitary landfill or by incineration. For guidance contact your state water board or regional office of the EPA.

## 14. TRANSPORTATION INFORMATION

**DOT Hazardous Materials Description:** Not Regulated

Sea Transport IMDG, not classified as dangerous

Air Transport IATA/ICAO, not classified as dangerous

## 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

### FIFRA Labeling:

**Niban-FG Fine Granular Bait**

**EPA Reg. No. 64405-2**

**Keep Out of Reach of Children**

**CAUTION**

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

Caution: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**CERCLA:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA Hazard Category (311/312):** Not hazardous

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

None

**EPA TSCA Inventory:** This product is regulated under FIFRA, thus exempt.

## 16. OTHER INFORMATION

### NFPA Rating:

Health = 0      Flammability = 0      Instability = 0

### HMIS Rating:

Health = 1      Flammability = 0      Physical Hazard = 0

**SDS Revision History:** 01/07/14: New SDS

03/15/20: Revised

### WARRANTY DISCLAIMER

The information, data and recommendations contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof. With respect to this publication and the product related thereto, unless otherwise expressly provided by Manufacturer in writing, **MANUFACTURER MAKES NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

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# NIBAN®-FG

## FINE GRANULAR BAIT

**A Weather/Moisture Resistant Bait to Kill and Control Ants, Cockroaches, Crickets, Mole Crickets and Silverfish**

FOR BOTH INTERIOR AND EXTERIOR USE

For Use In and Around Homes, Apartments, Garages, Public and Private Institutions, Schools, Hotels, Hospitals, Pet Stores, Zoos, Kennels, Warehouses, Supermarkets, Restaurants, Vending Machines and Food Processing Plants

### ACTIVE INGREDIENT:

Orthoboric Acid ..... 5%  
OTHER INGREDIENTS ..... 95%  
TOTAL ..... 100%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

EPA Reg. No. 64405-2      EPA Est. 64405-TN-1

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

#### Personal Protective Equipment (PPE)

Applicators and handlers must wear: Long-sleeved shirt and long pants; chemical-resistant or waterproof gloves; and shoes plus socks.

#### Storage & Disposal

Do not contaminate water, food or feed by storage or disposal. **Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Completely empty bag. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### GENERAL INFORMATION

This product is a ready-to-use, weather/moisture resistant bait for the control of Ants, Cockroaches, Crickets and Silverfish including: **ANTS:** Argentine, Carpenter, Thief, Pharaoh, Little Black, Pavement, Odorous House and Crazy Ants. **COCKROACHES:** Asian, American, Brown, Brown Banded, Smokey Brown, German and Oriental Cockroaches. **CRICKETS:** Camel, House, Field and Mole Crickets.

Do not contaminate this product with other pesticides. If this product becomes contaminated with another pesticide it will lose its effectiveness. Do not apply directly to food. In commercial food handling facilities, cover or remove any food during application. In food handling areas, bait may be placed in removable trays. Always record the number and location of bait stations. This product is designed to be used as a residual treatment in an Integrated Pest Management program incorporating good sanitation practices. This product may be applied in appropriate areas with a power duster. (Except in California) Consult equipment manufacturer for recommended settings. Children and pets should not be in the treatment area until after application is completed. Do not treat pets with this product. Avoid contamination of feed and foodstuff. Avoid contamination of ornamental plants.

#### First Aid

|                    |                                                                                                                                                                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If In Eyes:</b> | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
| <b>If On Skin:</b> | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>                                                     |

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## APPLICATION INSTRUCTIONS

**EXTERIOR BAITING FOR THE CONTROL OF ANTS, INCLUDING CARPENTER ANTS, AROUND HOMES AND OTHER STRUCTURES:** Treat exterior perimeter areas of structure in a band at least 2 to 4 feet wide at a rate of 6 ounces per 100 square feet.

**FOR THE CONTROL OF ANTS, COCKROACHES, CRICKETS, AND SILVERFISH IN AND AROUND HOMES, HOTELS, APARTMENT BUILDINGS, STORES AND RESTAURANTS (NON-FOOD AREAS), WAREHOUSES AND SEWERS:** **For interior applications:** Apply at a rate of 4 pounds per 1000 square feet (6 ounces or 1¼ cups per 100 square feet) of surface area. Spread evenly in crawl spaces, attics, drop ceilings and cellars with dirt or gravel floors. In attics, be sure to apply in eaves and access drains. In warehouses, garages and basements, concentrate application along walls and baseboards. Concentrate application in areas where insect activity is most prevalent. This product may also be applied in inaccessible areas such as cracks and crevices where insects may hide. Apply in pits of elevator, dumbwaiter and trash chute shafts. Apply under and behind pallets and boxes in storerooms. Bait may also be placed in removable trays in areas accessible to insects but away from children and pets. Always record the location and number of bait stations. In sewers, apply along ledges and around manhole entrances. Treat exterior perimeter building walls in a band approximately 2 feet wide and scatter bait in flowerbeds, leaf litter, wood piles, trash cans and refuse areas. Reapply as necessary.

**TO CONTROL ANTS, COCKROACHES, CRICKETS AND SILVERFISH IN:** Food handling establishments, homes, restaurants, markets, schools, warehouses, factories, offices, hotels, motels, hospitals, nursing homes, garages, grocery stores, apartment buildings, new construction, industrial plants, theaters, ships, boats, trains, aircraft, trucks, yachts, camps, mobile homes, buses, pet stores, zoos, kennels, military bases, libraries, utilities and sewers: **Food area application limited to crack and crevice treatment only.** Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. Apply liberally, scattering/dusting under and behind refrigerator, cooler, stove, sink, dishwasher, washing machine and dryer tubs; counters; into openings around drains, water pipes and electrical conduits; and in cracks and crevices along baseboards and corners of cabinets, counter tops, cupboards, and closets. Remove all lower drawers in kitchen and bathroom cabinets, bedroom dressers and chests of drawers, then scatter/dust liberally in drawer wells. Any bait visible after application must be brushed into cracks and crevices or removed. Reapply as necessary.

**FOR THE CONTROL OF COCKROACHES, CRICKETS, ANTS AND SILVERFISH in Federally inspected (USDA) meat and poultry plants:** For application only in inedible product areas and nonprocessing areas as a crack and crevice treatment. Apply liberally to cracks and crevices in areas such as around baseboards and in closets; beneath cabinets and appliances, in and around waste containers and into openings around drains, water pipes and electrical conduits. Avoid contamination of feed and foodstuffs. Bait stations may be used. Always record the number and location of bait stations. This product is best used as a supplemental residual treatment preceded by approved spray and good sanitation practices.

## WARRANTY LIMITATIONS AND DISCLAIMER

Because of varying conditions affecting use and application, manufacturer warns buyer that these may impair or vary the results or effects of the use of this product. Neither the manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for a purpose not indicated by the label or when used contrary to the directions or instructions hereon nor with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms and assumes all risk of usage and handling except when used or handled in accordance with this label.



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**MADE IN THE U.S.A.**

# SAFETY DATA SHEET



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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

|                      |               |
|----------------------|---------------|
| Trade name           | PREMISE® FOAM |
| Product code (UVP)   | 06335683      |
| SDS Number           | 102000011452  |
| EPA Registration No. | 432-1391      |

#### Relevant identified uses of the substance or mixture and uses advised against

|                                           |                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Use                                       | Insecticide                                                                                                                   |
| Restrictions on use                       | See product label for restrictions.                                                                                           |
| Information on supplier                   |                                                                                                                               |
| Supplier                                  | Bayer Environmental Science<br>A division of Bayer CropScience LP<br>5000 Centregreen Way, Suite 400<br>Cary, NC 27513<br>USA |
| Responsible Department                    | Email: SDSINFO.BCS-NA@bayer.com                                                                                               |
| Emergency telephone no.                   |                                                                                                                               |
| Emergency Telephone Number (24hr/ 7 days) | 1-800-334-7577                                                                                                                |
| Product Information Telephone Number      | 1-800-331-2867                                                                                                                |

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Gases under pressure: Compressed gas

#### Labelling in accordance with regulation HCS 29CFR §1910.1200



**Signal word:** Warning

#### Hazard statements

Contains gas under pressure; may explode if heated.

#### Precautionary statements

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Protect from sunlight. Store in a well-ventilated place.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name | CAS-No.     | Concentration % by weight |
|--------------------------|-------------|---------------------------|
| Imidacloprid             | 138261-41-3 | 0.05                      |
| Fatty alcohol ethoxylate | 66455-15-0  | 2.0                       |
| Isobutane                | 75-28-5     | 6.75                      |

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

|                       |                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.                                                                                                                                                            |
| <b>Inhalation</b>     | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.                                                                                      |
| <b>Skin contact</b>   | Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.                                                                                                               |
| <b>Eye contact</b>    | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.                                                                       |
| <b>Ingestion</b>      | Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person. Do not leave victim unattended. |

### Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

### Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

**Suitable** Water, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

**Unsuitable** High volume water jet

**Special hazards arising from the substance or mixture** Product is contained in a pressurised container which may explode on heating., Dangerous gases are evolved in the event of a fire.

#### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** 93.3 °C

**Auto-ignition temperature** No data available

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Explosivity** No data available

**Heat of combustion** 5.54 kJ/g  
NFPA30B Flammability, Aerosol Classification Level 1

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Remove all sources of ignition. Avoid contact with spilled product or contaminated surfaces. Isolate hazard area. Keep unauthorized people away.

#### Methods and materials for containment and cleaning up

**Methods for cleaning up** Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b>                                      | Contents under pressure. Use only in area provided with appropriate exhaust ventilation.                                                                                                                                                                                                                                                                                       |
| <b>Advice on protection against fire and explosion</b>              | Keep away from heat and sources of ignition. Do not use this product in or on electrical equipment due to the possibility of shock hazard.                                                                                                                                                                                                                                     |
| <b>Hygiene measures</b>                                             | Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.                                                                                                                                                                                                                      |
| <b>Conditions for safe storage, including any incompatibilities</b> |                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Requirements for storage areas and containers</b>                | Keep containers tightly closed in a dry, cool and well-ventilated place. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in original container and out of the reach of children, preferably in a locked storage area. |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

| Components   | CAS-No.     | Control parameters                        | Update  | Basis    |
|--------------|-------------|-------------------------------------------|---------|----------|
| Imidacloprid | 138261-41-3 | 0.7 mg/m <sup>3</sup><br>(TWA)            |         | OES BCS* |
| Isobutane    | 75-28-5     | 1,000 ppm<br>(STEL)                       | 03 2018 | ACGIH    |
| Isobutane    | 75-28-5     | 1,900 mg/m <sup>3</sup> /800 ppm<br>(REL) | 2010    | NIOSH    |

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### Exposure controls

##### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

|                                    |                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection</b>      | Respiratory protection is not required under anticipated circumstances of exposure.                                                  |
| <b>Hand protection</b>             | Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)                                                  |
| <b>Eye protection</b>              | Safety glasses with side-shields                                                                                                     |
| <b>Skin and body protection</b>    | Wear long-sleeved shirt and long pants and shoes plus socks.                                                                         |
| <b>General protective measures</b> | Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid |

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water.  
Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| Form                                               | aerosol                            |
| Colour                                             | white                              |
| Odour                                              | almost odourless                   |
| Odour Threshold                                    | No data available                  |
| pH                                                 | 5.0 - 7.5 (10 %)                   |
| Melting point/range                                | No data available                  |
| Boiling Point                                      | No data available                  |
| Flash point                                        | 93.3 °C                            |
| Flammability                                       | No data available                  |
| Auto-ignition temperature                          | No data available                  |
| Thermal decomposition                              | No data available                  |
| Minimum ignition energy                            | No data available                  |
| Self-accelarating decomposition temperature (SADT) | No data available                  |
| Upper explosion limit                              | No data available                  |
| Lower explosion limit                              | No data available                  |
| Vapour pressure                                    | No data available                  |
| Evaporation rate                                   | No data available                  |
| Relative vapour density                            | No data available                  |
| Relative density                                   | No data available                  |
| Density                                            | ca. 0.98 g/cm <sup>3</sup> (20 °C) |
| Water solubility                                   | soluble                            |
| Partition coefficient: n-octanol/water             | Imidacloprid: log Pow: 0.57        |
| Viscosity, dynamic                                 | 3 mPa.s (25 °C)                    |
| Viscosity, kinematic                               | No data available                  |
| Oxidizing properties                               | No data available                  |
| Explosivity                                        | No data available                  |



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### SECTION 10: STABILITY AND REACTIVITY

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Stable under normal conditions.                                                      |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                                         |
| <b>Possibility of hazardous reactions</b> | No hazardous reactions when stored and handled according to prescribed instructions. |
| <b>Conditions to avoid</b>                | Heat, flames and sparks.<br>Extremes of temperature and direct sunlight.             |
| <b>Incompatible materials</b>             | No incompatible materials known.                                                     |
| <b>Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use.                   |

---

### SECTION 11: TOXICOLOGICAL INFORMATION

|                                                                                           |                                                                              |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Exposure routes</b>                                                                    | Skin contact, Ingestion, Eye contact                                         |
| <b>Immediate Effects</b>                                                                  |                                                                              |
| <b>Skin</b>                                                                               | May cause slight irritation.                                                 |
| <b>Ingestion</b>                                                                          | Harmful if swallowed.                                                        |
| <b>Information on toxicological effects</b>                                               |                                                                              |
| <b>Acute oral toxicity</b>                                                                | LD50 (female Rat) > 5,000 mg/kg                                              |
| <b>Acute inhalation toxicity</b>                                                          | Cannot be prepared and tested in a respirable form.<br>No data available     |
| <b>Acute dermal toxicity</b>                                                              | LD50 (male/female combined Rat) > 5,000 mg/kg                                |
| <b>Skin corrosion/irritation</b>                                                          | Slight irritant effect - does not require labelling. (Rabbit)                |
| <b>Serious eye damage/eye irritation</b>                                                  | No eye irritation (Rabbit)                                                   |
| <b>Respiratory or skin sensitisation</b>                                                  | Skin: Non-sensitizing. (Guinea pig)<br>OECD Test Guideline 406, Buehler test |
| <b>Assessment STOT Specific target organ toxicity – single exposure</b>                   |                                                                              |
| Imidacloprid: Based on available data, the classification criteria are not met.           |                                                                              |
| <b>Assessment STOT Specific target organ toxicity – repeated exposure</b>                 |                                                                              |
| Imidacloprid did not cause specific target organ toxicity in experimental animal studies. |                                                                              |
| <b>Assessment mutagenicity</b>                                                            |                                                                              |

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Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

Isobutane 75-28-5

### NTP

None.

### IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.

### Assessment developmental toxicity

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

---

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient imidacloprid.

### Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 85 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient imidacloprid.

EC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l  
Exposure time: 24 h  
The value mentioned relates to the active ingredient imidacloprid.

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|                                                  |                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chronic toxicity to aquatic invertebrates</b> | EC10 (Chironomus riparius (non-biting midge)): 2.09 µg/l<br>Exposure time: 28 d<br>The value mentioned relates to the active ingredient imidacloprid.                                                                                                                                                      |
| <b>Toxicity to aquatic plants</b>                | IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l<br>Growth rate; Exposure time: 72 h<br>The value mentioned relates to the active ingredient imidacloprid.                                                                                                                                           |
| <b>Toxicity to bacteria</b>                      | EC50 (activated sludge) > 10,000 mg/l<br>The value mentioned relates to the active ingredient imidacloprid.                                                                                                                                                                                                |
| <b>Biodegradability</b>                          | Imidacloprid:<br>Not rapidly biodegradable                                                                                                                                                                                                                                                                 |
| <b>Koc</b>                                       | Imidacloprid: Koc: 225                                                                                                                                                                                                                                                                                     |
| <b>Bioaccumulation</b>                           | Imidacloprid:<br>Does not bioaccumulate.                                                                                                                                                                                                                                                                   |
| <b>Mobility in soil</b>                          | Imidacloprid: Moderately mobile in soils                                                                                                                                                                                                                                                                   |
| <b>Results of PBT and vPvB assessment</b>        |                                                                                                                                                                                                                                                                                                            |
| <b>PBT and vPvB assessment</b>                   | Imidacloprid: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).                                                                                                                  |
| <b>Environmental precautions</b>                 | Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Apply this product as specified on the label. |

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.                                       |
| <b>Contaminated packaging</b> | Do not re-use empty containers.<br>Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.<br>Place empty container in trash.                                |
| <b>RCRA Information</b>       | Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply. |

# SAFETY DATA SHEET



## PREMISE® FOAM

Version 5.0 / USA  
102000011452

9/11  
Revision Date: 05/18/2021  
Print Date: 05/19/2021

### SECTION 14: TRANSPORT INFORMATION

#### 49CFR

|                      |          |
|----------------------|----------|
| UN number            | 1950     |
| Class                | 2.2      |
| Packaging group      |          |
| Proper shipping name | AEROSOLS |

#### IMDG

|                      |          |
|----------------------|----------|
| UN number            | 1950     |
| Class                | 2.2      |
| Packaging group      |          |
| Marine pollutant     | NO       |
| Proper shipping name | AEROSOLS |

#### IATA

|                          |                         |
|--------------------------|-------------------------|
| UN number                | 1950                    |
| Class                    | 2.2                     |
| Packaging group          |                         |
| Environm. Hazardous Mark | NO                      |
| Proper shipping name     | AEROSOLS, NON-FLAMMABLE |

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

### SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1391

#### US Federal Regulations

##### TSCA list

|                          |            |
|--------------------------|------------|
| Water                    | 7732-18-5  |
| Isobutane                | 75-28-5    |
| Glycerine                | 56-81-5    |
| Fatty alcohol ethoxylate | 66455-15-0 |

#### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

#### SARA Title III - Section 302 - Notification and Information

Not applicable.

#### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

#### US States Regulatory Reporting

##### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

# SAFETY DATA SHEET



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This product does not contain any substances known to the State of California to cause reproductive harm.

### US State Right-To-Know Ingredients

|           |         |        |
|-----------|---------|--------|
| Isobutane | 75-28-5 | MN, NJ |
| Glycerine | 56-81-5 | MN, RI |

### Environmental

#### CERCLA

None.

#### Clean Water Section 307(a)(1)

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.

---

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

|         |                                                                       |
|---------|-----------------------------------------------------------------------|
| 49CFR   | Code of Federal Regulations, Title 49                                 |
| ACGIH   | US. ACGIH Threshold Limit Values                                      |
| ATE     | Acute toxicity estimate                                               |
| CAS-Nr. | Chemical Abstracts Service number                                     |
| CERCLA  | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS  | European inventory of existing commercial substances                  |
| ELINCS  | European list of notified chemical substances                         |
| IARC    | International Agency for Research on Cancer                           |
| IATA    | International Air Transport Association                               |
| IMDG    | International Maritime Dangerous Goods                                |
| N.O.S.  | Not otherwise specified                                               |
| NTP     | US. National Toxicology Program (NTP) Report on Carcinogens           |
| OECD    | Organization for Economic Co-operation and Development                |
| TDG     | Transportation of Dangerous Goods                                     |
| TWA     | Time weighted average                                                 |
| UN      | United Nations                                                        |
| WHO     | World health organisation                                             |

# SAFETY DATA SHEET



## PREMISE® FOAM

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### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 2      Instability - 1      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 2      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** The following sections have been revised: Section 5: Fire Fighting Measures.  
Reviewed and updated for general editorial purposes.

**Revision Date:** 05/18/2021

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

| Conditions of Sale and Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Follow the <b>Directions for Use</b> . It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the <b>Directions for Use</b> , subject to the inherent risks, referred to above. <b>TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.</b> BASF and the Seller offer this product, and the Buyer accepts it, subject to these <b>Conditions of Sale and Warranty</b> which may be varied only by agreement in writing signed by a duly authorized representative of BASF. <div>PCS813</div> |

*Alpine, Classic, PT, Vector, Vector Plasma, and Vector Plasma One are registered trademarks of BASF.*

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000499-00568.20160803.**NVA 2016-04-481-0174**  
Based on: NVA 2014-04-481-0042  
Supersedes: NVA 2015-04-481-0013

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



# Pressurized Fly Bait

**KILLS:** House Flies, Filth Flies, Lesser House Flies, Flesh Flies and Small Fruit or Vinegar Flies  
**FOR USE IN AND AROUND:** Commercial, Residential, Industrial Buildings and Other Manmade Structures, Garbage or Refuse Bins and Receptacles, or other areas flies may be a nuisance or health hazard. [Apartments; Bakeries; Campgrounds; Carnivals; Circus; Concert Arenas; Condominiums; Confectionaries; County and State Fair Facilities; Dairy Areas; Farm Houses; Day Care Facilities; Festival Grounds, Food Handling Establishments; Food Processing Plants; Food Storage Areas; Food Vending Structures; Garages; Golf Courses; Grain Mills; Granaries; Homes; Hospitals; Hotels; Housing and Containment Areas (i.e., Arenas, Barns, Cages, Hatcheries, Houses, Hutches, Kennels, Parlors, Pens, Sheds, Shelters, Stables) for Animals (i.e., Avian, Bovine, Canine, Equine, Feline, Hircine, Leporine, Murine, Porcine); Interiorscapes; LEED Buildings (as specified below); Libraries; Marinas; Meat, Poultry & Egg Processing Facilities; Meat Packing Plants; Milk Rooms; Mobile Homes; Motor Homes; Motels; Museums; Nursing Homes; Outdoor Living Areas; Pavilions; Porches; Research Facilities; Resorts; Restaurants; Mobile Food Vendors; Parking Ramps; Poultry Facilities (including: Hatchery, Egg Packaging, Breeding Facilities); Public Picnic Areas; Public Restrooms; Recreational Rest Areas; Residential Backyards; Schools; Supermarkets; Tents or Temporary Shelters; Theme Parks; Terminals; Transportation Equipment (Buses, Barges, Boats, Ships, Trailers, Trains, Trucks); Utilities; Warehouses; Waysides; Wildlife Refuge Areas; Zoos]

|                                                                                  |                                 |
|----------------------------------------------------------------------------------|---------------------------------|
| <b>ACTIVE INGREDIENT:</b>                                                        |                                 |
| Dinotefuran, N-methyl-N'-nitro-N-(tetrahydro-3-furanyl)methylguanidine . . . . . | 1.0%                            |
| <b>OTHER INGREDIENTS:</b> . . . . .                                              | 99.0%                           |
| <b>TOTAL:</b> . . . . .                                                          | 100.0%                          |
| <b>EPA Reg. No. 499-568</b>                                                      | <b>EPA Est. No. 7969-MO-001</b> |

KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside for complete **Directions for Use, Storage and Disposal,** and **Conditions of Sale and Warranty.**

**NET CONTENTS: 1 pound (16 ounces)** 81088696 NVA 2016-05-481-0448

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709  
  
Product of Japan. Formulated in the USA with domestic and imported materials.

| HOTLINE NUMBER                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may also call 1-800-832-HELP (4357), 24 hrs/day, 7/days/week. |

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds if bees are foraging in the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

**Contents under pressure. DO NOT** use or store near heat or open flame. **DO NOT** puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

| SMART SOLUTIONS FACTS                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A ready-to-use solution to kill flies in a broad range of urban environments. Provides attractancy properties which will aid in bringing flies into the treated bait area. Key attributes of this product include: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PT® Alpine® Pressurized Fly Bait</b>                                                                                                                                                                            | <ul style="list-style-type: none"><li>• Quick Knockdown</li><li>• Proven attractancy for up to 30 days</li><li>• Kills flies for up to 30 days on non-porous surfaces.</li><li>• May be used in conjunction with a fly light program such as Vector Plasma®, Vector Plasma One® and Vector® Classic® for monitoring of results and fly population reduction.</li><li>• For best management practices, use the bait as part of an overall Integrated Pest Management (IPM) program utilizing residuals and contact sprays, traps and drain cleaners. For questions or comments, call 1-800-777-8570.</li></ul> |

DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**Read Entire Label.** Use strictly in accordance with Precautionary Statements and Directions for Use, and with applicable state and federal regulations. Apply bait only in areas that are out of reach of children and pets.

USE RESTRICTIONS

- **DO NOT** apply bait to surfaces which may reach excessive temperatures. Examples include portions of stoves, lighting above food preparation areas, ovens, grills, fume hoods, steam tables, toasters, fryers, dishwashers and hot water pipes.
- **DO NOT** apply directly on food preparation surfaces or dining surfaces where foods for consumption may come in contact.
- **DO NOT** apply bait in areas where animals can ingest product.
- **DO NOT** apply directly upon animals.
- **DO NOT** apply to milking equipment in dairy areas.
- **DO NOT** apply directly into any electronic equipment or areas where electrical short circuit could occur.
- **DO NOT** use in aircraft cabins; use in cargo areas only.

APPLICATION INSTRUCTIONS

**AREA TREATMENT:** Point can toward target area from a distance no further than 12 in (30 cm) and press down actuator. Make a light application at a rate of 2 In ft/sec and avoid run off or dripping from targeted area. Area treatments are effective where flies congregate, roost and feed, which may include garbage receptacles and lids, refuse containers, under tables and benches, recycling bins, dumpsters, behind vending machines, under bars, calf hutch ceilings, eave areas, walls and/or areas where flies are likely to congregate or infest. **DO NOT** apply bait in areas that are frequently cleaned. This product will not adhere to surfaces that are dusty or greasy. Reapply when bait placements are no longer visible and/or reinfestation occurs. Use a water-dampened paper towel to remove unwanted bait placements and then discard in trash.

**BAND TREATMENT:** Spray from a distance no further away from targeted area than 6 in (15 cm) to create a band application at a rate of 2 In ft/sec. Band applications may be made to areas such as beam edges, receptacle edges, table or bench edges, around windows and window frames, under narrow eaves and other areas where there is a narrow area where flies land, roost and/or are likely to infest. Reapply when bait placements are no longer visible and/or reinfestation occurs. Use water-dampened paper towel to remove unwanted bait placements and then discard in trash.

**REMOVABLE BAIT PLACEMENTS:** Spray bait on a small object no larger than 24 in² and no smaller than 6 in² unless it is a rope or twine of at least 6 in long. Object may be made of wood, plastic, cardboard, index cards, nylon, metal or other suitable material. Place in areas of fly activity, and out of reach of children and domestic animals.

**FOOD HANDLING ESTABLISHMENTS:** Food/Feed handling establishments are places other than private residences in which food is held, processed, prepared or served, including those operating under the Federal meat, poultry, shell egg grading and egg products inspection programs.

**Use within food preparation and food production areas of food handling establishments is limited to the interior of refuse receptacles, removable bait placements or in stations. For areas outside of the food preparation and food production rooms, spot and/or band applications may be made to areas where flies congregate and rest.**

**Food/Feed Areas:** Include areas for receiving, serving, storing (dry, cold, frozen, raw), packing (canning, bottling, wrapping, boxing), preparing (cleaning, slicing, cooking, grinding), edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups).

All removable bait placements must be clearly marked with the wording “Fly Bait, Do not touch” (written, typed or stickered on it) and must be secured to the surface with an adhesive material or tape. Placements should be recorded and inspected with each service to that area. **DO NOT place removable bait placements over or on food preparation or food processing areas. The use of rope or twine is not allowed in food areas.**

**Non-Food/Feed Areas:** Include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage areas (after packaging, canning or bottling).

All removable bait placements must be clearly marked with the wording “Fly Bait, Do not touch”. Place in areas conducive to fly activity, and out of reach of children and pets.

Rope & Twine: Hang in areas where flies roost and/or congregate. Place a sticker or label clearly marked with the wording “Fly Bait, Do not touch” (written or typed) at the bottom of the rope or twine. Place in areas out of reach of children, pets and livestock.

**PREVENTATIVE FLY PROGRAMS:** This product may be used as part of a preventative program or in anticipation of a fly problem associated with an event. Event examples include weddings, picnics, birthday parties, family reunions, graduation parties, etc. Apply inside all garbage receptacles, underneath garbage lids, inside recycling bins or receptacles, and other labeled areas that will help prevent flies from being a nuisance.

| STORAGE AND DISPOSAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DO NOT</b> contaminate water, food or feed by storage or disposal.<br><b>PESTICIDE STORAGE:</b> Store in a cool, dry area away from heat or open flame and inaccessible to children.<br><b>PESTICIDE DISPOSAL:</b> Wastes resulting from use of this product may be disposed of on site, in accordance with the label directions, or at an approved waste disposal facility.<br><b>CONTAINER HANDLING &amp; DISPOSAL: DO NOT</b> puncture or incinerate! If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. |

Contains no CFCs or other ozone depleting substances.  
Federal regulations prohibit CFC propellants in aerosols.





## PT® Alpine® Pressurized Fly Bait

**KILLS:** House Flies, Filth Flies, Lesser House Flies, Flesh Flies and Small Fruit or Vinegar Flies

**FOR USE IN AND AROUND:** Commercial, Residential, Industrial Buildings and Other Manmade Structures, Garbage or Refuse Bins and Receptacles, or other areas flies may be a nuisance or health hazard. [Apartments; Bakeries; Campgrounds; Carnivals; Circus; Concert Arenas; Condominiums; Confectionaries; County and State Fair Facilities; Dairy Areas; Farm Houses; Day Care Facilities; Festival Grounds, Food Handling Establishments; Food Processing Plants; Food Storage Areas; Food Vending Structures; Garages; Golf Courses; Grain Mills; Granaries; Homes; Hospitals; Hotels; Housing and Containment Areas (i.e., Arenas, Barns, Cages, Hatcheries, Houses, Hutches, Kennels, Parlors, Pens, Sheds, Shelters, Stables) for Animals (i.e., Avian, Bovine, Canine, Equine, Feline, Hircine, Leporine, Murine, Porcine); Interiorscapes; LEED Buildings (as specified below); Libraries; Marinas; Meat, Poultry & Egg Processing Facilities; Meat Packing Plants; Milk Rooms; Mobile Homes; Motor Homes; Motels; Museums; Nursing Homes; Outdoor Living Areas; Pavilions; Porches; Research Facilities; Resorts; Restaurants; Mobile Food Vendors; Parking Ramps; Poultry Facilities (including: Hatchery, Egg Packaging, Breeding Facilities); Public Picnic Areas; Public Restrooms; Recreational Rest Areas; Residential Backyards; Schools; Supermarkets; Tents or Temporary Shelters; Theme Parks; Terminals; Transportation Equipment (Buses, Barges, Boats, Ships, Trailers, Trains, Trucks); Utilities; Warehouses; Waysides; Wildlife Refuge Areas; Zoos]

### ACTIVE INGREDIENT:

Dinotefuran, N-methyl-N'-nitro-N-(tetrahydro-3-furanyl)methylguanidine. . . . . 1.0%

**OTHER INGREDIENTS:** . . . . . 99.0%

**TOTAL:** . . . . . 100.0%

EPA Reg. No. 499-568

EPA Est. No. 7969-MO-001

**KEEP OUT OF REACH OF CHILDREN**

# CAUTION

### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may also call 1-800-832-HELP (4357), 24 hrs/day, 7/days/week.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds if bees are foraging in the treatment area.

### PHYSICAL OR CHEMICAL HAZARDS

**Contents under pressure. DO NOT** use or store near heat or open flame. **DO NOT** puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry area away from heat or open flame and inaccessible to children.

**PESTICIDE DISPOSAL:** Wastes resulting from use of this product may be disposed of on site, in accordance with the label directions, or at an approved waste disposal facility.

**CONTAINER HANDLING & DISPOSAL: DO NOT** puncture or incinerate! **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

See additional booklet for complete **Directions for Use**, and **Conditions of Sale and Warranty**.

### NET CONTENTS: 16 ounces

81088696 NVA 2016-05-481-0448

Product of Japan. Formulated in the USA with domestic and imported materials.

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



We create chemistry

# Safety Data Sheet

## PT Phantom II Pressurized Insecticide

Revision date : 2021/08/31  
Version: 11.0

Page: 1/13  
(30596114/SDS\_CPA\_US/EN)

### 1. Identification

#### Product identifier used on the label

## PT Phantom II Pressurized Insecticide

#### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, insecticide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

#### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 462410  
EPA Registration number: 499-548  
Molecular formula: C<sub>15</sub> H<sub>11</sub> Br Cl F<sub>3</sub> N<sub>2</sub> O  
Synonyms: chlorfenapyr

### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

|                 |                                     |                                                  |
|-----------------|-------------------------------------|--------------------------------------------------|
| Flam. Liq.      | 2                                   | Flammable liquids                                |
| Eye Dam./Irrit. | 2A                                  | Serious eye damage/eye irritation                |
| STOT SE         | 3 (Vapours may cause drowsiness and | Specific target organ toxicity — single exposure |

# Safety Data Sheet

## PT Phantom II Pressurized Insecticide

Revision date : 2021/08/31

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|                 |             |                                                |
|-----------------|-------------|------------------------------------------------|
|                 | dizziness.) |                                                |
| Aquatic Acute   | 3           | Hazardous to the aquatic environment - acute   |
| Aquatic Chronic | 3           | Hazardous to the aquatic environment - chronic |
| Flam. Aerosol   | 2           | Flammable aerosols                             |

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

|      |                                                    |
|------|----------------------------------------------------|
| H223 | Flammable aerosol.                                 |
| H225 | Highly flammable liquid and vapour.                |
| H319 | Causes serious eye irritation.                     |
| H336 | May cause drowsiness or dizziness.                 |
| H402 | Harmful to aquatic life.                           |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves and eye protection or face protection.                                  |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P280 | Wear eye protection.                                                                           |
| P243 | Take action to prevent static discharges.                                                      |
| P273 | Avoid release to the environment.                                                              |
| P261 | Avoid breathing mist or vapour or spray.                                                       |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment.                            |
| P251 | Do not pierce or burn, even after use.                                                         |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P242 | Use only non-sparking tools.                                                                   |
| P240 | Ground and bond container and receiving equipment.                                             |
| P264 | Wash contaminated body parts thoroughly after handling.                                        |

Precautionary Statements (Response):

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P312               | Call a POISON CENTER or physician if you feel unwell.                                                                            |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.                 |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P370 + P378        | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.                                             |
| P337 + P313        | If eye irritation persists: Get medical attention.                                                                               |

Precautionary Statements (Storage):

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| P403 + P235 | Store in a well-ventilated place. Keep cool.                               |
| P233        | Keep container tightly closed.                                             |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| P405        | Store locked up.                                                           |

# Safety Data Sheet

## PT Phantom II Pressurized Insecticide

Revision date : 2021/08/31

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(30596114/SDS\_CPA\_US/EN)

Precautionary Statements (Disposal):

P501

Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

Labeling of special preparations (GHS):

Contains: 50 % m/m flammable components

Repeated exposure may cause skin dryness or cracking.

---

## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

chlorfenapyr

CAS Number: 122453-73-0

Content (W/W): 0.5 %

Synonym: chlorfenapyr reference substance

dimethyl ether

CAS Number: 115-10-6

Content (W/W): < 15.0%

Synonym: Dimethyl ether

carbon dioxide

CAS Number: 124-38-9

Content (W/W): < 2.0%

Synonym: No data available.

Acetone

CAS Number: 67-64-1

Content (W/W): < 35.0%

Synonym: Acetone

---

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

#### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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### **If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting unless told to by a poison control center or doctor. Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. Take patient to hospital immediately. Medical monitoring for at least 7 days.

### **Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far, Symptoms of poisoning may only appear after several hours or several days.

### **Indication of any immediate medical attention and special treatment needed**

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

---

## **5. Fire-Fighting Measures**

### **Extinguishing media**

Suitable extinguishing media:  
foam, dry powder, carbon dioxide, water spray

### **Special hazards arising from the substance or mixture**

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, hydrogen bromide, Hydrogen chloride, hydrogen fluoride, nitrogen oxides, halogenated compounds  
The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure.

### **Advice for fire-fighters**

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

---

## **6. Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### **Methods and material for containment and cleaning up**

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Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

## 7. Handling and Storage

### Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Protect from temperatures above: 50 °C

The packed product must be protected against exceeding the indicated temperature.

## 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

### Components with occupational exposure limits

|                |            |                             |
|----------------|------------|-----------------------------|
| Acetone        | ACGIH, US: | TWA value 250 ppm ;         |
|                | ACGIH, US: | STEL value 500 ppm ;        |
|                | OSHA Z1:   | PEL 1,000 ppm 2,400 mg/m3 ; |
| carbon dioxide | ACGIH, US: | TWA value 5,000 ppm ;       |
|                | ACGIH, US: | STEL value 30,000 ppm ;     |
|                | OSHA Z1:   | PEL 5,000 ppm 9,000 mg/m3 ; |

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### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

|                                               |                                                              |                                                |
|-----------------------------------------------|--------------------------------------------------------------|------------------------------------------------|
| Form:                                         | liquid                                                       |                                                |
| Odour:                                        | solvent-like                                                 |                                                |
| Odour threshold:                              | Not determined due to potential health hazard by inhalation. |                                                |
| Colour:                                       | yellow to orange                                             |                                                |
| pH value:                                     | approx. 6 - 8<br>( 20 °C)                                    |                                                |
| Melting point:                                | approx. -95 °C                                               |                                                |
|                                               | Information applies to the solvent.                          |                                                |
| Boiling point:                                | approx. 56 °C                                                |                                                |
|                                               | Information applies to the solvent.                          |                                                |
| Flash point:                                  | < -28 °C                                                     | (Directive<br>92/69/EEC, A.9)<br>(ASTM D 3065) |
| Ignition distance test for<br>spray aerosols: | > 18 in                                                      |                                                |
| NFPA 30B flammability:                        | Level 1 Aerosol                                              |                                                |

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|                                                     |                                                                                                                                                                                                        |                                |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Lower explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |                                |
| Upper explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |                                |
| Autoignition:                                       | 530 °C                                                                                                                                                                                                 | (Regulation 440/2008/EC, A.15) |
| Vapour pressure:                                    | approx. 7 bar<br>( 20 °C)                                                                                                                                                                              |                                |
| Density:                                            | approx. 0.94 g/cm <sup>3</sup><br>( 20 °C)                                                                                                                                                             |                                |
| Vapour density:                                     | not applicable                                                                                                                                                                                         |                                |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable                                                                                                                                                                                         |                                |
| Thermal decomposition:                              | No decomposition if stored and handled as prescribed/indicated.                                                                                                                                        |                                |
| Viscosity, dynamic:                                 | approx. 2.28 mPa.s<br>( 21 °C)                                                                                                                                                                         | (ASTM D 2983)                  |
| Solubility in water:                                | miscible                                                                                                                                                                                               |                                |
| Evaporation rate:                                   | not applicable                                                                                                                                                                                         |                                |
| Other Information:                                  | If necessary, information on other physical and chemical parameters is indicated in this section.                                                                                                      |                                |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

### Incompatible materials

strong bases, strong acids, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:



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Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Relatively nontoxic after short-term skin contact.

#### Oral

Type of value: LD50

Species: mouse

Value: > 5,000 mg/kg

#### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 2.11 mg/l (OECD Guideline 403)

Exposure time: 4 h

An aerosol was tested.

No mortality was observed.

#### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (OECD Guideline 402)

#### Irritation / corrosion

Assessment of irritating effects: May cause moderate irritation to the skin. May cause slight but temporary irritation to the eyes.

#### Skin

Species: rabbit

Result: Slightly irritating.

#### Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

#### Sensitization

*Information on: chlorfenapyr*

*Guinea pig maximization test*

*Species: guinea pig*

*Result: Non-sensitizing.*

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Method: OECD Guideline 406

-----

### Aspiration Hazard

The product has not been tested. The statement has been derived from the properties of the individual components. May also damage the lung at swallowing (aspiration hazard).

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: chlorfenapyr*

*Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Affects the central nervous system.*

*Information on: carbon dioxide*

*Assessment of repeated dose toxicity: Prolonged or repeated exposure by inhalation to high concentrations may cause circulatory insufficiency leading to headache, nausea, vomiting and potentially death.*

*Information on: Acetone*

*Assessment of repeated dose toxicity: The substance may cause damage to the testes after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the hematological system after repeated ingestion of high doses. The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.*

-----

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Chlorfenapyr*

*Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.*

-----

*Information on: Acetone*

*Assessment of reproduction toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.*

-----

### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

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### Other Information

Has a degreasing effect on skin.

## 12. Ecological Information

### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.

### Toxicity to fish

*Information on: chlorfenapyr*

*LC50 (96 h) 0.00744 mg/l, Oncorhynchus mykiss (Directive 84/449/EEC, C.1, Flow through.)*

### Aquatic invertebrates

*Information on: chlorfenapyr*

*EC50 (96 h) 0.00203 mg/l, Mysidopsis bahia (Directive 84/449/EEC, C.2)*

### Aquatic plants

*Information on: chlorfenapyr*

*EC50 (72 h) 0.132 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201)*

*No observed effect concentration (72 h) 0.020 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201)*

### Chronic toxicity to fish

*Information on: chlorfenapyr*

*No observed effect concentration (93 d) 0.003678 mg/l, Oncorhynchus mykiss*

### Chronic toxicity to aquatic invertebrates

*Information on: chlorfenapyr*

*No observed effect concentration (28 d) 0.000172 mg/l, Mysidopsis bahia*

### Assessment of terrestrial toxicity

Acutely very toxic to terrestrial organisms.

### **Bioaccumulative potential**

#### Bioaccumulation potential

*Information on: chlorfenapyr*

*Bioconcentration factor: 116, Cyprinus carpio*

*Accumulation in organisms is not to be expected.*

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### Mobility in soil

#### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: chlorfenapyr*

*Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

-----

---

## 13. Disposal considerations

### **Waste disposal of substance:**

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **Container disposal:**

Do not cut, puncture, crush, or incinerate empty aerosol containers. Empty aerosol cans may meet the definition of RCRA D003.

---

## 14. Transport Information

### **Land transport**

USDOT

|                       |           |
|-----------------------|-----------|
| Hazard class:         | 2.1       |
| ID number:            | UN 1950   |
| Hazard label:         | 2.1, EHSM |
| Proper shipping name: | AEROSOLS  |

### **Sea transport**

IMDG

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Hazard class:         | 2.1                                                      |
| ID number:            | UN 1950                                                  |
| Hazard label:         | 2.1, EHSM                                                |
| Marine pollutant:     | YES                                                      |
| Proper shipping name: | AEROSOLS (contains ACETONE/DIMETHYLKETONE, CHLORFENAPYR) |

### **Air transport**

IATA/ICAO

|                       |                     |
|-----------------------|---------------------|
| Hazard class:         | 2.1                 |
| ID number:            | UN 1950             |
| Hazard label:         | 2.1                 |
| Proper shipping name: | AEROSOLS, FLAMMABLE |

### **Further information**

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

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### 15. Regulatory Information

#### Federal Regulations

##### **Registration status:**

|                 |          |                      |
|-----------------|----------|----------------------|
| Biocide         | TSCA, US | released / exempt    |
| Crop Protection | TSCA, US | released / exempt    |
| Chemical        | TSCA, US | blocked / not listed |

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

| <u>CERCLA RQ</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|-------------------|----------------------|
| 5000 LBS         | 67-64-1           | Acetone              |
| 100 LBS          | 115-10-6          | dimethyl ether       |

#### State regulations

| <u>State RTK</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|-------------------|----------------------|
| PA               | 67-64-1           | Acetone              |
|                  | 115-10-6          | dimethyl ether       |
|                  | 124-38-9          | carbon dioxide       |
| MA               | 67-64-1           | Acetone              |
|                  | 115-10-6          | dimethyl ether       |
|                  | 124-38-9          | carbon dioxide       |
| NJ               | 67-64-1           | Acetone              |
|                  | 115-10-6          | dimethyl ether       |
|                  | 124-38-9          | carbon dioxide       |

#### **Labeling requirements under FIFRA**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

##### **CAUTION:**

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of mists/vapours.

Wash thoroughly after handling.

Aerosol container contains flammable gas under pressure.

### 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2021/08/31

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We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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END OF DATA SHEET

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### 1. Identification

#### Product identifier used on the label

## PT Pro-Control Formula 2 Total Release Pressurized Insectici

#### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, insecticide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 452094

Registration number: EPA Registration number: 499-512

Synonyms: Pyethrins + piperonyl butoxide

### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

STOT SE

3 (Vapours may cause drowsiness and dizziness.) Specific target organ toxicity — single exposure

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|                 |   |                                                |
|-----------------|---|------------------------------------------------|
| Aquatic Chronic | 1 | Hazardous to the aquatic environment - chronic |
| Aquatic Acute   | 1 | Hazardous to the aquatic environment - acute   |
| Flam. Aerosol   | 1 | Flammable aerosols                             |

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

|      |                                                       |
|------|-------------------------------------------------------|
| H222 | Extremely flammable aerosol.                          |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273 | Avoid release to the environment.                                                              |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P261 | Avoid breathing mist or vapour or spray.                                                       |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |

Precautionary Statements (Response):

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| P312        | Call a POISON CENTER or physician if you feel unwell.                      |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P391        | Collect spillage.                                                          |

Precautionary Statements (Storage):

|             |                                                                             |
|-------------|-----------------------------------------------------------------------------|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.            |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. |
| P405        | Store locked up.                                                            |

Precautionary Statements (Disposal):

|      |                                                                     |
|------|---------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---------------------------------------------------------------------|

### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

Pyrethrins

CAS Number: 8003-34-7

Content (W/W): 0.5 %

Synonym: Pyrethrins and Pyrethroids A complex substance which may be obtained

by extraction of chrysanthemum flowers or may be made synthetically.

Composed primarily of four esters of chrysanthemumcarboxylic acid (mono and di). They are pyrethrin I and II and ci



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### Piperonylbutoxide

CAS Number: 51-03-6

Content (W/W): 4.0 %

Synonym: Piperonylbutoxide

### Acetone

CAS Number: 67-64-1

Content (W/W): 25.0 - 50.0%

Synonym: Acetone

### Distillates, petroleum

CAS Number: 64742-47-8

Content (W/W): 1.0 - 3.0%

Synonym: Distillates, petroleum, hydrotreated light

---

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### If on skin:

Wash thoroughly with soap and water

#### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Vomiting may cause aspiration pneumonia due to the ingredients.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide,

Aerosol container contains flammable gas under pressure. Pressure inside container is increased when heated, and may cause explosion. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

---

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

#### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is not regulated by CERCLA ('Superfund').

#### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

---

### 7. Handling and Storage

#### Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the

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substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

Storage stability:

May be kept indefinitely if stored properly.

If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

Protect from temperatures above: 130 °F

Explosive at or above indicated temperature.

## 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

### Components with occupational exposure limits

|                        |            |                                                                                                                                                  |
|------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Acetone                | ACGIH, US: | TWA value 250 ppm ;                                                                                                                              |
|                        | ACGIH, US: | STEL value 500 ppm ;                                                                                                                             |
|                        | OSHA Z1:   | PEL 1,000 ppm 2,400 mg/m3 ;                                                                                                                      |
| Pyrethrins             | ACGIH, US: | TWA value 5 mg/m3 ;                                                                                                                              |
|                        | OSHA Z1:   | PEL 5 mg/m3 ;                                                                                                                                    |
| Distillates, petroleum | ACGIH, US: | TWA value 200 mg/m3 Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. |
|                        | ACGIH, US: | Skin Designation Non-aerosol (total hydrocarbon vapor); Danger of cutaneous absorption                                                           |
| Pyrethrins             | ACGIH, US: | TWA value 5 mg/m3 ;                                                                                                                              |
|                        | OSHA Z1:   | PEL 5 mg/m3 ;                                                                                                                                    |

### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

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### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

##### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

##### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

---

## 9. Physical and Chemical Properties

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| Form:                   | liquid                                                                  |
| Odour:                  | of acetone                                                              |
| Odour threshold:        | Not determined due to potential health hazard by inhalation.            |
| Colour:                 | light yellow                                                            |
| pH value:               | approx. 5 - 7<br>( 20 °C)<br>Information based on the main component/s. |
| Melting point:          | approx. -95 °C<br>Information applies to the solvent.                   |
| Boiling point:          | approx. 56 °C<br>Information applies to the solvent.                    |
| Flash point:            | > -42 °C<br>Information applies to the propellant.                      |
| Flammability:           | not applicable                                                          |
| Flammability of Aerosol | > 18 in (ASTM D 3065)                                                   |
| Products:               | no flashback                                                            |
| NFPA 30B flammability:  | Level 2 Aerosol                                                         |

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|                                                     |                                                                                                                                                                                                        |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lower explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Upper explosion limit:                              | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Vapour pressure:                                    | approx. 5,100 hPa<br>( 20 °C)                                                                                                                                                                          |
| Density:                                            | Information applies to the propellant.<br>approx. 0.83 g/cm3<br>( 20 °C)                                                                                                                               |
| Vapour density:                                     | not applicable                                                                                                                                                                                         |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable                                                                                                                                                                                         |
| Thermal decomposition:                              | carbon monoxide, carbon dioxide<br>Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat. |
| Viscosity, dynamic:                                 | 2.52 mPa.s<br>(approx. 20 °C)                                                                                                                                                                          |
| Solubility in water:                                | dispersible                                                                                                                                                                                            |
| Evaporation rate:                                   | not applicable                                                                                                                                                                                         |
| Other Information:                                  | If necessary, information on other physical and chemical parameters is indicated in this section.                                                                                                      |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

The product is chemically stable.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

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Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

---

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Oral

Type of value: LD50

Species: rat (female)

Value: 4,180 mg/kg

#### Inhalation

Type of value: LC50

Species: rat

Value: > 5.42 mg/l

No mortality was observed.

#### Dermal

Type of value: LD50

Species: rabbit

Value: > 2,000 mg/kg

No mortality was observed.

#### Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause slight but temporary irritation to the eyes.

#### Skin

Species: rabbit

Result: non-irritant

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### Eye

Species: rabbit

Result: non-irritant

### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

modified Buehler test

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

modified Buehler test

Species: guinea pig

Result: Non-sensitizing.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: Piperonylbutoxide*

*Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses. Repeated dermal uptake of the substance did not cause substance-related effects.*

#### *Information on: Acetone*

*Assessment of repeated dose toxicity: The substance may cause damage to the testes after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the hematological system after repeated ingestion of high doses. The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.*

-----

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### *Information on: pyrethrum*

*Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components. No mutagenic effects reported.*

#### *Information on: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-*

*Assessment of mutagenicity: Not classified, due to lack of data.*

#### *Information on: Acetone*

*Assessment of mutagenicity: In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.*

#### *Information on: Distillates, petroleum*

*Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not genotoxic in mammalian cell culture. The substance was not mutagenic in mammalian cell culture.*

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*The substance was not genotoxic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

-----

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Distillates, petroleum*

*Assessment of carcinogenicity: Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

-----

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Acetone*

*Assessment of reproduction toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.*

-----

### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

*Information on: pyrethrum*

*Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

*Information on: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-*

*Assessment of teratogenicity: Not classified, due to lack of data.*

*Information on: Acetone*

*Assessment of teratogenicity: In animal studies the substance did not cause malformations.*

*Information on: Distillates, petroleum*

*Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

-----

### Other Information

Misuse can be harmful to health.

Has a degreasing effect on skin.

---

## 12. Ecological Information

### **Toxicity**

Aquatic toxicity



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Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

### Toxicity to fish

*Information on: Piperonylbutoxide*

*LC50 (96 h) 3.49 mg/l, Cyprinodon variegatus (OECD Guideline 203, Flow through.)*

*The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*Information on: Pyrethrins*

*LC50 (96 h) 0.0052 mg/l, Oncorhynchus mykiss*

### Aquatic invertebrates

*Information on: Piperonylbutoxide*

*EC50 (48 h) 0.51 mg/l, Daphnia magna (OECD Guideline 202, part 1, Flow through.)*

*The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*No observed effect concentration (28 d) 0.063 mg/l, aquatic arthropod (other)*

*The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Limit concentration test only (LIMIT test).*

*Information on: Pyrethrins*

*EC50 (96 h) 0.0014 mg/l, Mysidopsis bahia*

### Aquatic plants

*Information on: Piperonylbutoxide*

*EC50 (72 h) 3.89 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)*

*The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*No observed effect concentration (72 h) 0.824 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)*

*The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

### Chronic toxicity to fish

*Information on: Piperonylbutoxide*

*No observed effect concentration (35 d) 0.18 mg/l, Pimephales promelas (OPP 72-4 (EPA-Guideline), Flow through.)*

*The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*Information on: Pyrethrins*

*No observed effect concentration 0.0019 mg/l, Pimephales promelas*

### Chronic toxicity to aquatic invertebrates

*Information on: Piperonylbutoxide*

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*No observed effect concentration (21 d) 0.03 mg/l, Daphnia magna (OPP 72-4 (EPA-Guideline), Flow through.)*

*The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.*

*Information on: Pyrethrins*

*No observed effect concentration (28 d) 0.00086 mg/l, Daphnia magna*

-----

### Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment biodegradation and elimination (H2O)

*Information on: Piperonylbutoxide*

*Not readily biodegradable (by OECD criteria).*

-----

### Bioaccumulative potential

#### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Bioaccumulation potential

*Information on: Piperonylbutoxide*

*Bioconcentration factor: 91 - 380 (28 d), Lepomis macrochirus (OECD Guideline 305 E)*

-----

### Mobility in soil

#### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Piperonylbutoxide*

*Adsorption to solid soil phase is not expected.*

-----

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

---

## 13. Disposal considerations

### **Waste disposal of substance:**

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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### Container disposal:

Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

## 14. Transport Information

### Land transport

USDOT

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1, EHSM  
Proper shipping name: AEROSOLS

### Sea transport

IMDG

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1, EHSM  
Marine pollutant: YES  
Proper shipping name: AEROSOLS (contains DIMETHYLETHER, ACETONE/DIMETHYLKETONE, PYRETHRINS)

### Air transport

IATA/ICAO

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1  
Proper shipping name: AEROSOLS, FLAMMABLE

### Further information

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Crop Protection TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

##### CAS Number

51-03-6

##### Chemical name

Piperonylbutoxide

##### CERCLA RQ

5000 LBS

100 LBS

##### CAS Number

67-64-1

115-10-6; 64742-

##### Chemical name

Acetone

dimethyl ether; Distillates (petroleum), hydrotreated

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|       |                               |                                             |
|-------|-------------------------------|---------------------------------------------|
| 1 LBS | 47-8; 64742-47-8<br>8003-34-7 | light; Distillates, petroleum<br>Pyrethrins |
|-------|-------------------------------|---------------------------------------------|

### State regulations

#### State RTK

PA

#### CAS Number

67-64-1

115-10-6

64742-47-8

NJ

67-64-1

115-10-6

64742-47-8

51-03-6

#### Chemical name

Acetone

dimethyl ether

Distillates, petroleum

Acetone

dimethyl ether

Distillates, petroleum

Piperonylbutoxide

### **NFPA Hazard codes:**

Health: 1

Fire: 3

Reactivity: 1

Special:

### **Labeling requirements under FIFRA**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

May cause moderate but temporary irritation to the eyes.

Avoid inhalation of mists/vapours.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Flammable Liquid

Aerosol container contains flammable gas under pressure.

## **16. Other Information**

### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2022/02/23

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT

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PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.  
END OF DATA SHEET

# Specimen Label

Recruit AG FlexPack termite bait must be used in conjunction with a service provided by a pest management professional licensed by the state to apply termite control products.



# Recruit<sup>®</sup> AG FlexPack<sup>®</sup>

## TERMITE BAIT

™/®Trademarks of Corteve Agriscience and its affiliated companies

**A termite bait for use as an above-ground delivery system for elimination of subterranean termite colonies**

|                                       |        |
|---------------------------------------|--------|
| Active Ingredient: noviflumuron ..... | 0.5%   |
| Other Ingredients .....               | 99.5%  |
| Total .....                           | 100.0% |

**Do not tamper with bait material.**

EPA Reg. No. 62719-652

## Keep Out of Reach of Children

### Environmental Hazards

This product is highly toxic to aquatic invertebrates and possibly to fish. Do not allow the bait or its noviflumuron contents to be washed into a body of water containing aquatic life, such as a pond or stream. Do not use, handle or tamper with the bait container in a manner inconsistent with this label.

### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in original container in a dry storage area.

**Pesticide Disposal:** Product not disposed of by use according to label directions should be wrapped in paper and placed in a trash can.

**Container Handling:** Do not break open, cut into or remove protective wrapper from product until ready for use.

### Product Information

Recruit<sup>®</sup> AG FlexPack<sup>®</sup> termite bait is an above-ground station and delivery system for the Sentricon<sup>®</sup> System and may be used to eliminate subterranean termite colonies. Recruit AG FlexPack contains an insect growth regulator (IGR) noviflumuron that prevents successful molting and development of subterranean termites. This disruption of development causes a decline of the termite colony to the point where the colony can no longer sustain itself and is eliminated.

Recruit AG FlexPack is used against structurally damaging species of subterranean termites, including *Coptotermes*, *Reticulitermes*, and *Heterotermes* spp. Target sites for use of this product include interior and exterior surfaces of buildings and crawl spaces, fences, utility poles, decking, landscape decorations, trees, or other features that could be damaged by termite feeding and foraging activity.

When used alone as a control system, stations with Recruit AG FlexPack must be inspected on at least a quarterly basis so that bait remains available. Recruit AG FlexPack may also be used as a spot treatment

without a specified inspection interval if used in conjunction with the in-ground installation of the Sentricon<sup>®</sup> System.

If using the station hard cover, access to additional bait matrix at a specific target site may be provided by "stacking" stations with Recruit AG FlexPack one on top of another. Stations may be stacked during the initial installation or during a subsequent inspection if one-third to one-half of the bait matrix has been consumed and active feeding continues. Details of this process are provided in the Installation of Supplemental Stations with Recruit AG FlexPack section of this label. When feeding in the stations has stopped, the stations with Recruit AG FlexPack can be removed. Do not re-use Recruit AG FlexPack.

When Recruit AG FlexPack is used in conjunction with other termite control methods, including soil barrier treatments, an in-ground installation of Sentricon<sup>®</sup> must also be made. However, applications and treatments with other termite control methods in the areas through which termites must pass to reach an installation of Recruit AG FlexPack will prevent feeding and should be delayed until the entire baiting process is completed.

### Food Handling Establishments

Recruit AG FlexPack may be installed in both food and non-food areas of all types of food handling establishments, i.e., food service, food processing, and food manufacturing establishments. This includes restaurants, grocery stores, bakeries, bottling plants, canneries, meat and poultry processing plants, and grain mills.

### Inspection of Structures

Thorough inspection of the site to be protected is required to determine if subterranean termites are present and accessible. Treatment sites may include the interior and exterior surfaces of buildings and crawl spaces, fences, utility poles, decking, landscape decorations, trees, and other features that could be damaged by termite foraging and feeding activity.

Recruit AG FlexPack is effective only when applied to areas where termites are active and direct access to the station is possible. Installation of Recruit AG FlexPack does not attract termites. Areas suitable for placement of Recruit AG FlexPack include interior and exterior surfaces where:

- Live termites are visually observed in mud tubes or subsurface galleries;
- Feeding activity is detected using an acoustic emission detector or other detection technology; or
- Termite mud tubes, feeding damage, or emergence holes have recently appeared.

The surface area for installation of Recruit AG FlexPack should be large enough to allow the station to be firmly attached to the structure.

### Installation of Recruit AG FlexPack

The flexible station with Recruit AG FlexPack consists of a flexible package containing the bait matrix and two cover options, a hard cover or flexible cover. The cover allows for inspection of the bait station after installation. The flexible cover allows the station to fit in and around corners, over ornate molding and into smaller areas than the hard cover. The hard cover provides additional protection of the flexible station when needed. The hard cover option also allows for stations to be easily stacked and contains breakout points in the mounting surfaces surrounding the access window which may be removed to avoid damaging mud tubes or to provide better contact with the mounting surface.

Termites may abandon a station that allows light, air movement, drying of the matrix, or invasion by ants or other predators. Proper attachment and sealing of the station housing to the structure is critical.

### Bait and Surface Preparation

1. Inspect the site to which the station with Recruit AG FlexPack will be attached to determine if the surface is suitable for attachment and best cover option.
2. Once suitable areas for placement are identified, some surface preparation may be necessary before installation of Recruit AG FlexPack. In areas where there are no obvious subsurface mud tubes, feeding damage, or emergence holes, but termite feeding activity is detected, holes approximately 3/8-inch in diameter may be drilled to intercept feeding galleries within the area to be covered by the bait station. Be careful not to scrape off or disturb surface mud tubes during the drilling process.
3. Moisten the bait matrix before securing the station in place. To moisten, open the flexible station and add sufficient water or a sugar-containing sports performance drink to thoroughly moisten the bait matrix. Knead the matrix contents until the wetting agent has been fully absorbed. Once the wetting agent is absorbed, expose the bait matrix by creating access points for entry of termites in the flexible station. Regardless of whether installing the flexible station directly on to a target site or into the hard cover placed over a target site, the opened side with access points must be exposed and in contact with the mounting surface where termite activity is present.

### Installing the Flexible Station with the Flexible Cover

1. Break the mud tube or if necessary, drill 3/8" hole to intercept feeding galleries.
2. Affix the flexible station to the target site so that it sits over the opening in the mud tube or area of termite activity. Take special care not to crush or block the mud tube from entering the station. Suitable attachment materials include screws, tape, non-volatile adhesives, latex-based caulk, or other appropriate materials. (**Note:** Avoid use of adhesives or caulking materials with volatile solvents that can temporarily repel termites.)
3. Place the flexible cover over the flexible station so that the station is completely covered and affix to site. As when affixing the station, care should be taken to not crush or block the mud tube from entering the station when affixing the cover.

### Installing the Flexible Station with the Hard Cover

1. Break the mud tube or if necessary, drill 3/8" hole to intercept feeding galleries.
2. Affix the flexible station to the target site so that it sits over the opening in the mud tube or area of termite activity. Take special care not to crush or block the mud tube from entering the station. Suitable attachment materials include screws, tape, non-volatile adhesives, latex-based caulk, or other appropriate materials. (**Note:** Avoid use of adhesives or caulking materials with volatile solvents that can temporarily repel termites.)
3. Align the back open side of the hard cover so that it fits over the installed flexible station. Ensure the entire flexible station is covered and secure the hard cover to the surface.
  - a. Appropriate use of breakout points where surface mud tubes intersect the edges of the hard cover will allow secure attachment without crushing the mud tubes.
  - b. Securely attach the hard cover to the structure. Suitable attachment materials include screws, tape, non-volatile adhesives, latex-based caulk, or other appropriate materials. (**Note:** Avoid use of adhesives or caulking materials with volatile solvents that can temporarily repel termites.) Apply adhesive caulking material to the surfaces of the hard cover which contact the mounting surface, but do so only after the final mounting position has been determined and, if necessary, breakout points have been removed. The method of attachment should not interfere with removing the cover to inspect the bait or add a supplementary station.
4. Alternatively, the hard cover may be installed first as in step 3 and the flexible station inserted after installation.
  - a. When mounting the hard cover to surfaces containing surface mud tubes, a segment of each tube within the area to be covered should be removed as described in Step 1. This opening provides termites with direct access to the bait when inserted into the cover.

### Inspection of Recruit AG FlexPack

To inspect Recruit AG FlexPack, expose the bait matrix. If termites are active in the station and the matrix appears to be at least 1/3 to 1/2 consumed, a new station should be installed or a supplemental station should be added. If the bait matrix is degraded, it should be removed and replaced with a new station.

If the entire contents of the bait station are consumed before replenishment, termites may forage elsewhere. When used alone as a control system, stations with Recruit AG FlexPack must be inspected on at least a quarterly basis. During inspection, check bait stations for secure attachment and proper seal to the mounting surface and reinforce if necessary.

### Installation of Supplemental Stations with Recruit AG FlexPack

Stations installed with the Recruit AG FlexPack hard cover can accommodate the addition of a supplemental station by "stacking" a new station on top of an existing one. Stacking allows uninterrupted feeding without disturbing the termites in the original station. Moisture may be added to the supplemental station before installation as described in the Installation of Recruit AG FlexPack section of this label.

- Remove the cover from the existing station. After moistening as noted in Step 2 of Bait Preparation, expose the bait matrix so termites can readily access the bait in the stacked station.
- Affix the new station and cover into place on top of the existing station and hard cover.

Up to two stations (original plus 1) may be stacked at one location. If it is necessary to continue baiting after two stations have been stacked, remove the second station, leaving the original station in place and add the new station on top of it.

Inspect supplemental stations as described in the Inspection of Recruit AG FlexPack section of this label.

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### Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent permitted by law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

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### Warranty Disclaimer

Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW, Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to the label instructions abnormal conditions (such as excessive rainfall, drought, etc.), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Corteva Agriscience or the seller. To the extent permitted by law, all such risks shall be assumed by the user.

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### Limitation of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Corteva Agriscience' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent permitted by law, Corteva Agriscience shall not be liable for losses or damages resulting from handling or use of this product unless Corteva Agriscience is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Corteva Agriscience be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Corteva Agriscience or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitation of Remedies in any manner.

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**Produced for**  
**Corteva Agriscience LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

Label Code: CD02-422-020  
Replaced Label: D02-422-001

EPA accepted 06/23/15

### Revisions:

1. Related to change of company name, address, and contact information for company 62719 accepted by EPA January 5, 2021, the following changes have been made:
  - Legal Entity Updates.
2. Updated trademarking.

# SAFETY DATA SHEET



## Recruit® AG FlexPack™

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

### SECTION 1. IDENTIFICATION

Product name : Recruit® AG FlexPack™

#### Manufacturer or supplier's details

##### COMPANY IDENTIFICATION

**Manufacturer/importer** : CORTEVA AGRISCIENCE LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS, IN, 46268-1053  
UNITED STATES

**Customer Information Number** : 800-992-5994

**E-mail address** : customerinformation@corteva.com

**Emergency telephone** : INFOTRAC (CONTRACT 84224).  
800-992-5994 or 317-337-6009

#### Recommended use of the chemical and restrictions on use

Recommended use : End use insecticide product

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity : Category 2

Effects on or via lactation

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H361 Suspected of damaging fertility or the unborn child.  
H362 May cause harm to breast-fed children.

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Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust.  
P263 Avoid contact during pregnancy/ while nursing.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name                   | CAS-No.      | Concentration (% w/w) |
|---------------------------------|--------------|-----------------------|
| Noviflumuron                    | 121451-02-3  | 0.5                   |
| Cellulose                       | 9004-34-6    | >= 60 - < 70          |
| Octadecanoic acid, calcium salt | 1592-23-0    | >= 1 - < 3            |
| Balance                         | Not Assigned | > 20                  |

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact : Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.

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If swallowed : No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed : None known.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : No specific antidote.  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray  
Alcohol-resistant foam

Unsuitable extinguishing media : Dry chemical

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.  
Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Combustion products may include and are not limited to:  
Carbon oxides

Specific extinguishing methods : Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Avoid breathing dust.  
Use personal protective equipment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.  
Prevent from entering into soil, ditches, sewers, underwater.  
See Section 12, Ecological Information.
- Methods and materials for containment and cleaning up : Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.  
Pick up and arrange disposal without creating dust.  
Recovered material should be stored in a vented container.  
The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.  
Keep in suitable, closed containers for disposal.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.  
See Section 13, Disposal Considerations, for additional information.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Do not smoke.  
Handle in accordance with good industrial hygiene and safety practice.  
Avoid exposure - obtain special instructions before use.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid inhalation of vapor or mist.  
Do not swallow.  
Avoid contact with skin and eyes.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.  
Take care to prevent spills, waste and minimize release to the environment.  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Materials to avoid : Keep in properly labeled containers.  
Store in accordance with the particular national regulations.  
Strong oxidizing agents

Packaging material : Unsuitable material: None known.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components                      | CAS-No.     | Value type<br>(Form of exposure)    | Control parameters / Permissible concentration | Basis    |
|---------------------------------|-------------|-------------------------------------|------------------------------------------------|----------|
| Cellulose                       | 9004-34-6   | TWA                                 | 10 mg/m3                                       | ACGIH    |
|                                 |             | TWA (total dust)                    | 15 mg/m3                                       | OSHA Z-1 |
|                                 |             | TWA (respirable fraction)           | 5 mg/m3                                        | OSHA Z-1 |
|                                 |             | TWA (Total dust)                    | 15 mg/m3                                       | OSHA P0  |
|                                 |             | TWA (respirable dust fraction)      | 5 mg/m3                                        | OSHA P0  |
| Octadecanoic acid, calcium salt | 1592-23-0   | TWA (Inhalable particulate matter)  | 10 mg/m3                                       | ACGIH    |
|                                 |             | TWA (Respirable particulate matter) | 3 mg/m3                                        | ACGIH    |
| Noviflumuron                    | 121451-02-3 | TWA                                 | 0.1 mg/m3                                      | Dow IHG  |

**Engineering measures** : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.  
Local exhaust ventilation may be necessary for some operations.

#### Personal protective equipment

**Respiratory protection** : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

**Hand protection**

**Remarks** : Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Polyvinyl chloride

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("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection : Use safety glasses (with side shields).  
If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin and body protection : Wear clean, body-covering clothing.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid.

Color : Tan

Odor : Sweet

Odor Threshold : No data available

pH : 6.36 (75.7 °F / 24.3 °C)  
Concentration: 1 %

Melting point/range : No data available.

Freezing point : Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Bulk density : 653.8 g/L (73.6 °F / 23.1 °C)

Solubility(ies)  
Water solubility : No data available

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|                          |   |                                               |
|--------------------------|---|-----------------------------------------------|
| Autoignition temperature | : | No data available                             |
| Viscosity                | : |                                               |
| Viscosity, dynamic       | : | Not applicable                                |
| Explosive properties     | : | No                                            |
| Oxidizing properties     | : | No significant increase (>5C) in temperature. |

### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |                                                                                                                                                                                |
|------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : | Not classified as a reactivity hazard.                                                                                                                                         |
| Chemical stability                 | : | No decomposition if stored and applied as directed.<br>Stable under normal conditions.                                                                                         |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>No hazards to be specially mentioned.<br>None known.                                                                           |
| Conditions to avoid                | : | None known.                                                                                                                                                                    |
| Incompatible materials             | : | None.                                                                                                                                                                          |
| Hazardous decomposition products   | : | Decomposition products depend upon temperature, air supply and the presence of other materials.<br>Decomposition products can include and are not limited to:<br>Carbon oxides |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Components:

##### **Noviflumuron:**

|                           |   |                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat, male and female): > 5,000 mg/kg                                                                                                                                                                                                                                                                                                                                             |
| Acute inhalation toxicity | : | Remarks: No adverse effects are anticipated from single exposure to dust.<br>Based on the available data, respiratory irritation was not observed.<br><br>LC50 (Rat, male and female): > 5.24 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Symptoms: No deaths occurred at this concentration.<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity     | : | LD50 (Rabbit, male and female): > 5,000 mg/kg                                                                                                                                                                                                                                                                                                                                          |

##### **Cellulose:**

|                     |   |                                                                                          |
|---------------------|---|------------------------------------------------------------------------------------------|
| Acute oral toxicity | : | LD50 (Rat): > 3,160 mg/kg<br>Assessment: The substance or mixture has no acute oral tox- |
|---------------------|---|------------------------------------------------------------------------------------------|

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icity

### Octadecanoic acid, calcium salt:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute oral toxicity

### Respiratory or skin sensitization

#### Components:

##### Noviflumuron:

Remarks : Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:  
No relevant data found.

### Germ cell mutagenicity

#### Components:

##### Noviflumuron:

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

##### Cellulose:

Germ cell mutagenicity - Assessment : The data presented are for the following material:, Methyl cellulose., In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

### Octadecanoic acid, calcium salt:

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

### Carcinogenicity

#### Components:

##### Noviflumuron:

Carcinogenicity - Assessment : Has caused cancer in laboratory animals., Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

##### Cellulose:

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

#### Components:

##### **Noviflumuron:**

Reproductive toxicity - Assessment : Suspected human reproductive toxicant, Studies indicating a hazard to babies during the lactation period

In animal studies, has been shown to interfere with reproduction., In animal studies, has been shown to interfere with fertility.  
Did not cause birth defects or any other fetal effects in laboratory animals.

##### **Cellulose:**

Reproductive toxicity - Assessment : In animal studies, cellulose has been shown to interfere with fertility and reproduction as a result of nutritional deficiencies associated with extremely high dietary concentrations of cellulose.  
Did not cause birth defects or any other fetal effects in laboratory animals.

##### **Octadecanoic acid, calcium salt:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.  
No relevant data found.

### STOT-single exposure

#### Components:

##### **Noviflumuron:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

##### **Cellulose:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

##### **Octadecanoic acid, calcium salt:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.



# SAFETY DATA SHEET



## Recruit® AG FlexPack™

|                |                              |                             |                                                          |
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### Repeated dose toxicity

#### Components:

##### **Noviflumuron:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

##### **Cellulose:**

Remarks : Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

##### **Octadecanoic acid, calcium salt:**

Remarks : Repeated exposures to dusts of this material are not anticipated to result in systemic toxicity or permanent lung injury; however, excessive exposures may cause less severe respiratory effects.

### Aspiration toxicity

#### Components:

##### **Noviflumuron:**

Based on physical properties, not likely to be an aspiration hazard.

##### **Cellulose:**

Based on physical properties, not likely to be an aspiration hazard.

##### **Octadecanoic acid, calcium salt:**

Based on available information, aspiration hazard could not be determined.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Noviflumuron:**

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 2.0 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203 or Equivalent

LC50 (Oncorhynchus mykiss (rainbow trout)): > 2.00 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203 or Equivalent

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0003 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.75 mg/l  
End point: Growth rate inhibition  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100  
M-Factor (Chronic aquatic toxicity) : 100  
Toxicity to microorganisms : EC50 (activated sludge): > 1.9 mg/l  
Exposure time: 3 h  
Method: OECD 209 Test

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 10,000 mg/kg  
Exposure time: 14 d  
GLP: yes

Toxicity to terrestrial organisms : Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is slightly toxic to birds on a dietary basis (LC50 between 1001 and 5000 ppm).

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg  
Exposure time: 14 d  
GLP: yes

dietary LC50 (Colinus virginianus (Bobwhite quail)): 4,100 mg/kg  
Exposure time: 10 d  
GLP: yes

oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee  
Exposure time: 48 h

contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee  
Exposure time: 48 h  
GLP: yes

### Cellulose:

Toxicity to fish : LC50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Algae): > 100 mg/l  
End point: Growth rate inhibition  
Exposure time: 96 h

Toxicity to microorganisms : LC50 (Bacteria): > 100 mg/l

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**Octadecanoic acid, calcium salt:**

|                                                     |   |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | Remarks: The LC50 value is above the water solubility.<br>The EC50 value is above the water solubility.<br><br>LC50 (Oryzias latipes (Japanese medaka)): estimated > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 or Equivalent                                                                                |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): estimated > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                                                                                                                                                                                                    |
| Toxicity to algae/aquatic plants                    | : | EyC50 (Pseudokirchneriella subcapitata (algae)): estimated > 100 mg/l<br>End point: Cell yield inhibition<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>ErC50 (Pseudokirchneriella subcapitata (algae)): estimated > 100 mg/l<br>End point: Growth rate<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |

**Persistence and degradability****Components:****Noviflumuron:**

|                  |   |                                                                  |
|------------------|---|------------------------------------------------------------------|
| ThOD             | : | 1.03 kg/kg                                                       |
| Photodegradation | : | Rate constant: 8.95E-12 cm <sup>3</sup> /s<br>Method: Estimated. |

**Cellulose:**

|                  |   |                                                                                  |
|------------------|---|----------------------------------------------------------------------------------|
| Biodegradability | : | Remarks: Biodegradation rate may increase in soil and/or water with acclimation. |
| ThOD             | : | 1.18 kg/kg                                                                       |

**Octadecanoic acid, calcium salt:**

|                  |   |                                                            |
|------------------|---|------------------------------------------------------------|
| Biodegradability | : | Remarks: Material is expected to be readily biodegradable. |
| ThOD             | : | 2.74 kg/kg                                                 |

**Bioaccumulative potential****Components:****Noviflumuron:**

|                                        |   |                                     |
|----------------------------------------|---|-------------------------------------|
| Partition coefficient: n-octanol/water | : | log Pow: 4.94<br>Method: Estimated. |
|----------------------------------------|---|-------------------------------------|

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Remarks: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

### Cellulose:

Partition coefficient: n-octanol/water : Remarks: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

### Octadecanoic acid, calcium salt:

Partition coefficient: n-octanol/water : Remarks: No data available for this product.

### Balance:

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

### Mobility in soil

### Components:

#### Noviflumuron:

Distribution among environmental compartments : Remarks: Expected to be relatively immobile in soil (Koc > 5000).

### Cellulose:

Distribution among environmental compartments : Remarks: No data available.

### Octadecanoic acid, calcium salt:

Distribution among environmental compartments : Remarks: No data available.

### Balance:

Distribution among environmental compartments : Remarks: No relevant data found.

### Other adverse effects

### Components:

#### Noviflumuron:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### Cellulose:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### Octadecanoic acid, calcium salt:

Ozone-Depletion Potential : Regulation: (Update: 05/16/2011)

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Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### Balance:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.  
If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Noviflumuron)  
Class : 9  
Packing group : III  
Labels : 9

#### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Noviflumuron)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956

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### IMDG-Code

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| UN number            | : UN 3077                                                           |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Noviflumuron) |
| Class                | : 9                                                                 |
| Packing group        | : III                                                               |
| Labels               | : 9                                                                 |
| EmS Code             | : F-A, S-F                                                          |
| Marine pollutant     | : yes                                                               |
| Remarks              | : Stowage category A                                                |

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

### Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Reproductive toxicity

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

Cellulose

9004-34-6

### The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

### TSCA list

No substances are subject to a Significant New Use Rule.

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No substances are subject to TSCA 12(b) export notification requirements.

### Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-652

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

## SECTION 16. OTHER INFORMATION

### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

### Full text of other abbreviations

|                |                                                                                    |
|----------------|------------------------------------------------------------------------------------|
| ACGIH          | : USA. ACGIH Threshold Limit Values (TLV)                                          |
| Dow IHG        | : Dow Industrial Hygiene Guideline                                                 |
| OSHA P0        | : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)               |
| OSHA Z-1       | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| ACGIH / TWA    | : 8-hour, time-weighted average                                                    |
| Dow IHG / TWA  | : Time Weighted Average (TWA):                                                     |
| OSHA P0 / TWA  | : 8-hour time weighted average                                                     |
| OSHA Z-1 / TWA | : 8-hour time weighted average                                                     |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 05/13/2022

Product code: GF-3354

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN



# SAFETY DATA SHEET

## DOW AGROSCIENCES LLC

**Product name:** RECRUIT™ HD Bait Device

**Issue Date:** 03/19/2018

**Print Date:** 02/06/2020

DOW AGROSCIENCES LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

---

### 1. IDENTIFICATION

---

**Product name:** RECRUIT™ HD Bait Device

**Recommended use of the chemical and restrictions on use**

**Identified uses:** End use insecticide product

**COMPANY IDENTIFICATION**

DOW AGROSCIENCES LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS IN 46268-1053  
UNITED STATES

**Customer Information Number:**

800-992-5994  
info@corteva.com

**EMERGENCY TELEPHONE NUMBER**

**24-Hour Emergency Contact:** 800-992-5994

**Local Emergency Contact:** 352-323-3500

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### 2. HAZARDS IDENTIFICATION

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**Hazard classification**

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Reproductive toxicity - Category 2

Effects on or via lactation

**Label elements**

**Hazard pictograms**



Signal word: **WARNING!**

**Hazards**

Suspected of damaging fertility or the unborn child.  
May cause harm to breast-fed children.

**Precautionary statements****Prevention**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust or mist.  
Avoid contact during pregnancy/ while nursing.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**

IF exposed or concerned: Get medical advice/ attention.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

No data available

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**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

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This product is a mixture.

| Component                       | CASRN         | Concentration |
|---------------------------------|---------------|---------------|
| Noviflumuron                    | 121451-02-3   | 0.5%          |
| Cellulose                       | 9004-34-6     | 67.6%         |
| Octadecanoic acid, calcium salt | 1592-23-0     | 2.0%          |
| Balance                         | Not available | 29.9%         |

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**4. FIRST AID MEASURES**

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**Description of first aid measures****General advice:**

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact:** Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** No emergency medical treatment necessary.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

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## 5. FIREFIGHTING MEASURES

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**Suitable extinguishing media:** Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

**Unsuitable extinguishing media:** No data available

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is produced when product burns.

**Advice for firefighters**

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

**Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers,

boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions, protective equipment and emergency procedures:** Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Small spills: Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance.

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## 7. HANDLING AND STORAGE

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**Precautions for safe handling:** Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Good housekeeping and controlling of dusts are necessary for safe handling of product.

**Conditions for safe storage:** Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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### Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

| Component                       | Regulation | Type of listing         | Value/Notation |
|---------------------------------|------------|-------------------------|----------------|
| Noviflumuron                    | Dow IHG    | TWA                     | 0.1 mg/m3      |
| Cellulose                       | ACGIH      | TWA                     | 10 mg/m3       |
|                                 | OSHA Z-1   | TWA total dust          | 15 mg/m3       |
|                                 | OSHA Z-1   | TWA respirable fraction | 5 mg/m3        |
| Octadecanoic acid, calcium salt | ACGIH      | TWA                     | 10 mg/m3       |

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

### Exposure controls

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure

limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator.

The following should be effective types of air-purifying respirators: Particulate filter.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Physical state                       | Granules.                        |
| Color                                | Tan                              |
| Odor                                 | Sweet                            |
| Odor Threshold                       | No data available                |
| pH                                   | 6.36 1% <i>pH Electrode</i>      |
| Melting point/range                  | No data available                |
| Freezing point                       | No data available                |
| Boiling point (760 mmHg)             | Not applicable                   |
| Flash point                          | <b>closed cup</b> Not applicable |
| Evaporation Rate (Butyl Acetate = 1) | No data available                |
| Flammability (solid, gas)            | No data available                |
| Lower explosion limit                | No data available                |
| Upper explosion limit                | No data available                |
| Vapor Pressure                       | No data available                |
| Relative Vapor Density (air = 1)     | No data available                |
| Relative Density (water = 1)         | No data available                |

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Water solubility                       | No data available                             |
| Partition coefficient: n-octanol/water | No data available                             |
| Auto-ignition temperature              | No data available                             |
| Decomposition temperature              | No data available                             |
| Kinematic Viscosity                    | No data available                             |
| Explosive properties                   | No                                            |
| Oxidizing properties                   | No significant increase (>5C) in temperature. |
| Liquid Density                         | Not applicable                                |
| Bulk density                           | 0.54 g/ml                                     |
| Molecular weight                       | No data available                             |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** No data available

**Chemical stability:** Thermally stable at typical use temperatures.

**Possibility of hazardous reactions:** Polymerization will not occur.

**Conditions to avoid:** Some components of this product can decompose at elevated temperatures.

**Incompatible materials:** Avoid contact with: Strong oxidizers.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

### Acute toxicity

#### Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.  
LD50, Rat, > 5,000 mg/kg Estimated.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.  
LD50, Rabbit, > 5,000 mg/kg Estimated.

**Acute inhalation toxicity**

No adverse effects are anticipated from single exposure to dust. Based on the available data, respiratory irritation was not observed.

As product: The LC50 has not been determined.

**Skin corrosion/irritation**

Brief contact is essentially nonirritating to skin.

**Serious eye damage/eye irritation**

Solid or dust may cause irritation or corneal injury due to mechanical action.

**Sensitization**

For the active ingredient(s):

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

For the active ingredient(s):

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

For the major component(s):

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity**

For the active ingredient(s): Has caused cancer in laboratory animals. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

For the major component(s): Did not cause cancer in laboratory animals.

**Teratogenicity**

For the active ingredient(s): Did not cause birth defects or any other fetal effects in laboratory animals.

For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive toxicity**

For the active ingredient(s): In animal studies, has been shown to interfere with reproduction. In animal studies, has been shown to interfere with fertility.

For the major component(s): In animal studies, cellulose has been shown to interfere with fertility and reproduction as a result of nutritional deficiencies associated with extremely high dietary concentrations of cellulose.

**Mutagenicity**

For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

For the major component(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**COMPONENTS INFLUENCING TOXICOLOGY:****Noviflumuron****Acute inhalation toxicity**

No adverse effects are anticipated from single exposure to dust. Based on the available data, respiratory irritation was not observed.

LC50, Rat, male and female, 4 Hour, dust/mist, > 5.24 mg/l No deaths occurred at this concentration.

**Cellulose****Acute inhalation toxicity**

The LC50 has not been determined.

**Octadecanoic acid, calcium salt****Acute inhalation toxicity**

Dust may cause irritation to upper respiratory tract (nose and throat).

The LC50 has not been determined.

**Balance****Acute inhalation toxicity**

The LC50 has not been determined.

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**12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data is available.*

**Toxicity****Noviflumuron****Acute toxicity to fish**

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, *Lepomis macrochirus* (Bluegill sunfish), semi-static test, 96 Hour, > 2.0 mg/l, OECD Test Guideline 203 or Equivalent

LC50, *Oncorhynchus mykiss* (rainbow trout), semi-static test, 96 Hour, > 2.00 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna* (Water flea), flow-through test, 48 Hour, 0.0003 mg/l, OECD Test Guideline 202 or Equivalent



**Acute toxicity to algae/aquatic plants**

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, > 0.75 mg/l

**Toxicity to bacteria**

EC50, activated sludge, 3 Hour, > 1.9 mg/l, OECD 209 Test

**Toxicity to Above Ground Organisms**

Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).  
Material is slightly toxic to birds on a dietary basis (LC50 between 1001 and 5000 ppm).  
oral LD50, Colinus virginianus (Bobwhite quail), 14 d, > 2,000 mg/kg  
dietary LC50, Colinus virginianus (Bobwhite quail), 10 d, 4,100 mg/kg  
oral LD50, Apis mellifera (bees), 48 Hour, > 100micrograms/bee  
contact LD50, Apis mellifera (bees), 48 Hour, > 100micrograms/bee

**Toxicity to soil-dwelling organisms**

LC50, Eisenia fetida (earthworms), 14 d, > 10,000 mg/kg

**Cellulose**

**Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis  
(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).  
LC50, Fish, 96 Hour, > 100 mg/l

**Acute toxicity to algae/aquatic plants**

EC50, Algae, 96 Hour, Growth rate inhibition, > 100 mg/l

**Toxicity to bacteria**

LC50, Bacteria, > 100 mg/l

**Octadecanoic acid, calcium salt**

**Acute toxicity to fish**

The LC50 value is above the water solubility.  
The EC50 value is above the water solubility.  
LC50, Oryzias latipes (Japanese medaka), 96 Hour, estimated> 100 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, Daphnia magna (Water flea), 48 Hour, estimated> 100 mg/l, OECD Test Guideline 202

**Acute toxicity to algae/aquatic plants**

EyC50, Pseudokirchneriella subcapitata (algae), 72 Hour, Cell yield inhibition, estimated> 100 mg/l, OECD Test Guideline 201  
ErC50, Pseudokirchneriella subcapitata (algae), 72 Hour, Growth rate, estimated> 100 mg/l, OECD Test Guideline 201

**Balance**

**Acute toxicity to fish**

No relevant data found.

**Persistence and degradability**

**Noviflumuron**

**Biodegradability:** No relevant information found.

**Theoretical Oxygen Demand:** 1.03 mg/mg

**Photodegradation**

**Atmospheric half-life:** 14.34 Hour

**Method:** Estimated.

**Cellulose**

**Biodegradability:** Biodegradation rate may increase in soil and/or water with acclimation.

**Theoretical Oxygen Demand:** 1.18 mg/mg

**Octadecanoic acid, calcium salt**

**Biodegradability:** Material is expected to be readily biodegradable.

**Theoretical Oxygen Demand:** 2.74 mg/mg

**Balance**

**Biodegradability:** No relevant data found.

**Bioaccumulative potential**

**Noviflumuron**

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Partition coefficient: n-octanol/water(log Pow):** 4.94 Estimated.

**Cellulose**

**Bioaccumulation:** No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

**Octadecanoic acid, calcium salt**

**Bioaccumulation:** No data available for this product.

**Balance**

**Bioaccumulation:** No relevant data found.

**Mobility in soil**

**Noviflumuron**

Expected to be relatively immobile in soil (Koc > 5000).

**Cellulose**

No data available.

**Octadecanoic acid, calcium salt**

No data available.

**Balance**

No relevant data found.

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### 13. DISPOSAL CONSIDERATIONS

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**Disposal methods:** If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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### 14. TRANSPORT INFORMATION

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#### DOT

Not regulated for transport

#### Classification for SEA transport (IMO-IMDG):

|                                                                                             |                                                                  |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Proper shipping name</b>                                                                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Noviflumuron) |
| <b>UN number</b>                                                                            | UN 3077                                                          |
| <b>Class</b>                                                                                | 9                                                                |
| <b>Packing group</b>                                                                        | III                                                              |
| <b>Marine pollutant</b>                                                                     | Noviflumuron                                                     |
| <b>Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code</b> | Consult IMO regulations before transporting ocean bulk           |

#### Classification for AIR transport (IATA/ICAO):

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| <b>Proper shipping name</b> | Environmentally hazardous substance, solid, n.o.s.(Noviflumuron) |
| <b>UN number</b>            | UN 3077                                                          |
| <b>Class</b>                | 9                                                                |
| <b>Packing group</b>        | III                                                              |

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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**15. REGULATORY INFORMATION**

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**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Reproductive toxicity

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Pennsylvania Worker and Community Right-To-Know Act:**

The following chemicals are listed because of the additional requirements of Pennsylvania law:

**Components**

Cellulose

**CASRN**

9004-34-6

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**United States TSCA Inventory (TSCA)**

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number: 62719-608

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

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**16. OTHER INFORMATION**

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**Hazard Rating System****NFPA**

| Health | Flammability | Instability |
|--------|--------------|-------------|
| 0      | 1            | 0           |

**Revision**

Identification Number: 323156 / A211 / Issue Date: 03/19/2018 / Version: 4.0

DAS Code: GF-2024

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

|          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| ACGIH    | USA. ACGIH Threshold Limit Values (TLV)                                          |
| Dow IHG  | Dow Industrial Hygiene Guideline                                                 |
| OSHA Z-1 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| TWA      | Time Weighted Average (TWA):                                                     |

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

DOW AGROSCIENCES LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with

all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

US

INDOXACARB GROUP 22A INSECTICIDE



# Advion<sup>®</sup> Cockroach

Gel Bait

syngenta.

## Insecticide

### FOR USE IN RESIDENTIAL, INSTITUTIONAL, COMMERCIAL, AND INDUSTRIAL AREAS

Use sites include single and multi-family residential buildings, schools, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, food handling/storage establishments), and transportation equipment such as aircraft, trains, ships, boats, buses.

**KEEP OUT OF REACH  
OF CHILDREN  
CAUTION/  
PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**DO NOT TREAT AREAS THAT ARE  
EASILY ACCESSIBLE TO CHILDREN  
AND PETS**

#### Active Ingredient:

Indoxacarb: (S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl) [4(trifluoromethoxy) phenyl]amino] carbonyl]indeno[1,2-e] [1,3,4]oxadiazine-4a-(3H) carboxylate . . . . . 0.6%

Other Ingredients . . . . . 99.4%  
Total: . . . . . 100.0%

EPA Reg. No. 100-1484

EPA Est. 54450-IL-002

Product of USA

**SCP 1484A-L1C 0620  
4123793**

**4 x 1.06 oz (30g)  
syringes**

Net Weight  
Non-refillable Container



(01) 0 07 02941 53206 9

# Advion Cockroach Gel Bait

## FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance  
(Human or Animal) Or Chemical Emergency Assistance  
(Spill, Leak, Fire or Accident) Call **1-800-888-8372**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 24 hours. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Do not apply to any impervious surfaces which may contact or lead directly to surface water, storm drains, or urban runoff conveyance systems (gutters).

### Physical and Chemical Hazards

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

## PRODUCT INFORMATION

Advion® Cockroach Gel Bait is designed to control pest species of cockroaches such as German, American, Australian, Smoky-Brown, Brown, Asian, Oriental, and Brown-Banded.

## INSECT RESISTANCE MANAGEMENT

|            |       |     |             |
|------------|-------|-----|-------------|
| INDOXACARB | GROUP | 22A | INSECTICIDE |
|------------|-------|-----|-------------|

For resistance management, Advion Cockroach Gel Bait contains a Group 22A insecticide. Any insect population may contain individuals naturally resistant to Advion Cockroach Gel Bait and other Group 22A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same treated areas. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Advion Cockroach Gel Bait or other Group 22A insecticides with different groups that control the same pests.
- Contact your local Syngenta representative, retailer, or extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Syngenta at 1-866-SYNGENT(A) (866-796-4368).

Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

## Use Instructions and Precautions:

**Do not treat areas that are easily accessible to children and pets.**

1. Advion Cockroach Gel Bait can be used indoors or outdoors applied as a crack and crevice treatment within residential homes, industrial facilities, offices, warehouses, commercial kitchens, hospitals, schools, nursing homes, hotels, buses, trains, aircraft, retail and commercial establishments, and other areas infested with cockroaches.
2. Apply Advion Cockroach Gel Bait to areas frequented by cockroaches such as between different elements of construction, between equipment and floors, openings leading into voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, and behind and under appliances, cabinets, sinks, closets, and any other equipment that cockroaches are typically known to hide.
3. Do not apply Advion Cockroach Gel Bait to surfaces recently treated with residual sprays.
4. Do not apply residual sprays to surfaces treated with Advion Cockroach Gel Bait.
5. Inspect bait placements during follow-up inspections and apply fresh bait as needed.
6. Do not apply to surfaces that food contacts.
7. Do not allow open foods to contact gel material.



# Advion Cockroach Gel Bait

## Treatment Rates for All Uses

- For heavy infestations of cockroaches, apply 3 to 5 spots of Advion Cockroach Gel Bait per 10 linear feet.
- For light to moderate infestations of cockroaches, apply 1-3 spots of Advion Cockroach Gel Bait per 10 linear feet.
- Each spot of Advion® Cockroach Gel Bait must equal about 0.5 grams (approx. 1/4" diameter)
- For all levels of cockroach infestations, when a bead of Advion Cockroach Gel Bait is used, apply a small thin bead that is less than 1/8" wide and approximately 2 inches long.

## Indoor Use Directions

- Infested areas must be carefully inspected to determine overall infestation levels, locations of harborage areas, and most appropriate application points.
- Apply Advion Cockroach Gel Bait as a small spot of material, approximately 0.5 grams (approx. 1/4" in dia.), to areas not able to be contacted by children or pets.
- Several small applications distributed within an area are more effective than 1 or 2 applications of large quantities. In some cases a small thin bead (less than 1/8" wide and 2" long) may be appropriate such as between construction elements or other cracks and crevices.
- Indoor applications include cracks and crevices along walls or floors, behind or under equipment, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect Advion Cockroach Gel Bait placements periodically for consumption or attractiveness and reapply as needed.

## Applications in Nonfood/Nonfeed Handling Areas

Advion Cockroach Gel Bait is designed for use as a spot or crack and crevice treatment to control cockroaches in residential structures and the non-food/non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Nonfood/non-feed areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

## Applications in Food/Feed Handling Areas

Application to food/feed areas of food/feed handling establishments may only be made as a crack and crevice treatment only. Apply Advion Cockroach Gel Bait directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where cockroaches are found or are entering.

Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply Advion Cockroach Gel Bait to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply Advion Cockroach Gel Bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- Do not apply Advion Cockroach Gel Bait to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.
- Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of Advion Cockroach Gel Bait to exposed surfaces used for food preparation.
- If Advion Cockroach Gel Bait contacts an exposed surface, first remove as much of the gel bait as possible, then wash with soap and water.

## Outdoor Use Directions:

A thorough inspection around a structure may reveal areas where cockroaches are gaining access. Attempts should be made to remove the access. Advion Cockroach Gel Bait may also be applied as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor cockroaches, along walls, garbage holding areas, or suitable placement site acting as a cockroach harborage. Place baits in such a way as to reduce the potential of subsequent human contact. Inspect Advion Cockroach Gel Bait placements periodically and apply fresh bait as needed.

## Advion Cockroach Gel Bait

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

#### Pesticide Storage

Store in cool, dry place inaccessible to children and pets.

#### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### Container Disposal

**Nonrefillable Container:** Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Advion®, the ALLIANCE FRAME   
the SYNGENTA Logo and the PURPOSE ICON   
are Trademarks of a Syngenta Group Company

©2020 Syngenta

For non-emergency (e.g., current product information),  
call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300  
**SCP 1484A-L1C 0620**



INDOXACARB GROUP 22A INSECTICIDE

**Advion<sup>®</sup> Ant**  
**Gel**

**syngenta<sup>®</sup>**

## Insecticide

**FOR USE IN RESIDENTIAL,  
INSTITUTIONAL, COMMERCIAL,  
AND INDUSTRIAL AREAS**

Use sites include single and multi-family residential buildings, schools, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, zoos, food handling/storage establishments), and transportation equipment such as aircraft, trains, ships, boats, buses.

**KEEP OUT OF REACH  
OF CHILDREN  
CAUTION/  
PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**DO NOT TREAT AREAS THAT ARE  
EASILY ACCESSIBLE TO CHILDREN  
AND PETS**

*Active Ingredient:*

Indoxacarb\*: (S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4(trifluoromethoxy) phenyl]amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a-(3H)carboxylate . . . . . 0.05%

*Other Ingredients* . . . . . 99.95%

*Total:* . . . . . 100.00%

\*Indoxacarb belongs to the oxadiazine chemical class.

EPA Reg. No. 100-1498

EPA Est. 54450-IL-002

Product of USA

**SCP 1498A-L1C 0420**

**4 x 1.06 oz (30g)  
syringes**

**Net Weight**

**Non-refillable Container**



## Advion Ant Gel

### FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance  
(Human or Animal) Or Chemical Emergency Assistance  
(Spill, Leak, Fire or Accident) Call **1-800-888-8372**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

### Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 24 hours. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Do not apply to any impervious surfaces which may contact or lead directly to surface water, storm drains, or urban runoff conveyance systems (gutters).

### Physical and Chemical Hazards

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### PRODUCT INFORMATION

Advion® Ant Gel is specifically formulated to be attractive to all major pest species of ants such as Acrobat, Argentine, Big-headed, Carpenter, Cornfield, Crazy, Field, Ghost, Harvester\*, Honey, Little black, Odorous house, Pavement, Pharaoh\*, Pyramid, Red Imported Fire Ant\*, Rover, Thief, and White-footed. Advion Ant Gel contains the active ingredient, indoxacarb, a non-repellent insecticide. Use of Advion Ant Gel will help eliminate ants within days of applying the gel according to the use directions.

\* Advion Ant Gel is effective at killing Pharaoh ants, foraging red imported fire ants and harvester ants. For complete control of outdoor nests of these species, use additional treatments labeled for outdoor nest control of these species.

### INSECT RESISTANCE MANAGEMENT

|            |       |     |             |
|------------|-------|-----|-------------|
| INDOXACARB | GROUP | 22A | INSECTICIDE |
|------------|-------|-----|-------------|

For resistance management, Advion Ant Gel contains a Group 22A insecticide. Any insect population may contain individuals naturally resistant to Advion Ant Gel and other Group 22A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same treated areas. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of Advion Ant Gel or other Group 22A insecticides with different groups that control the same pests.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.

Contact your local Syngenta representative, retailer, or extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. For further information or to report suspected resistance, contact Syngenta at 1-866-SYNGENT(A) (866-796-4368).

Syngenta encourages responsible product stewardship to ensure effective long-term control of the insects on this label.

**Use Instructions and Precautions:** Do not treat areas that are easily accessible to children and pets.

1. Advion Ant Gel can be used indoors or outdoors applied as a crack and crevice or spot treatment in single and multi-family residential homes, institutional, commercial and industrial facilities (including schools, warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, nursing homes, offices, zoos, retail establishments, food handling/storage establishments), transportation equipment such as aircraft, trains, ships, boats, and buses, and other similar sites where ant infestations are a problem.
2. Avoid applying Advion Ant Gel to surfaces recently treated with residual sprays.
3. Surfaces treated with Advion Ant Gel should not be treated with residual sprays.
4. Inspect applications periodically for consumption/activity and apply additional bait as needed.
5. Do not apply to surfaces that food contacts.
6. Do not allow open foods to contact gel material.

## Advion Ant Gel

7. Refillable Bait Stations: Advion Ant Gel may be used in commercially available refillable bait stations designed for interior and/or exterior or perimeter insect pest control. If the refillable bait station is not equipped with a sticker to identify the contents, apply a sticker either on the interior or exterior of the device. For best results, position refillable bait stations near ant trails, nest sites, or where ants are known to actively forage. Regularly inspect each refillable bait stations and replace with Advion Ant Gel as needed for continual control of ants.

### Treatment Rates for All Uses

- Apply Advion Ant Gel as spots of gel or small lines of gel.
- Placements of spots or lines of Advion Ant Gel should be to active foraging trails, nest sites, or to areas known to be active.
- Apply 0.1 to 1.0 gram spots of Advion Ant Gel or approximately 1/4" in diameter spots.
- Apply lines of Advion Ant Gel of approximately 1/8" wide and 2" long; up to 3" long for highly active foraging trails.
- Apply as many placements of Advion Ant Gel as possible to active foraging areas without disrupting the natural foraging behavior of ants.
- If Advion Ant Gel is used in refillable bait stations apply an amount of the Advion Ant Gel that does not exceed the capacity of the refillable bait station's bait reservoir.

### Examples of Advion Ant Gel Placement Amounts



Figure 1: Line of gel approximately 1/8" x 2"



Figure 2: Spot of gel approximately 0.1g



Figure 3: Spot of gel approximately 1g

### Indoor Use Directions

- Inspect infested areas carefully to determine overall infestation levels, locations of foraging, nesting areas, and most appropriate application points.
- Indoor applications include cracks and crevices along walls or floors, behind or under equipment or appliances, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect Advion Ant Gel placements periodically for consumption or attractiveness and reapply as needed.

### Applications in Non-food/Non-feed Handling Areas

Advion Ant Gel is designed for use as a spot or crack and crevice treatment to control ants in residential structures and the non-food/non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Non-food/non-feed areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

### Applications in Food/Feed Handling Areas

Application to food/feed areas of food/feed handling establishments may only be made as a crack and crevice treatment. Apply Advion Ant Gel directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where ants are found or are entering. Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply Advion Ant Gel to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply Advion Ant Gel to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food-holding surfaces as bait could be removed by the washing.
- Do not apply Advion Ant Gel to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.  
Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of Advion Ant Gel to exposed surfaces used for food preparation.

If Advion Ant Gel contacts an exposed surface, first remove as much of the gel bait as possible, then wash with soap and water.

## Advion Ant Gel

### Outdoor Use Directions:

- A thorough inspection around a structure may reveal areas where ants are gaining access to the structure. Attempts should be made to remove the access.
- Apply Advion Ant Gel as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor ants, along walls, garbage holding areas, or suitable placement site acting as an ant harborage.
- Make Advion Ant Gel placements to reduce the potential of subsequent human contact.
- Inspect Advion Ant Gel placements periodically and apply fresh ant gel as needed.
- High temperatures may affect the consistency of the gel after placement, so inspect to determine if additional gel is needed.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

#### Pesticide Storage

Store in cool, dry place inaccessible to children and pets.

#### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### Container Disposal

**Nonrefillable Container:** Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Advion®, the ALLIANCE FRAME   
the SYNGENTA Logo and the PURPOSE ICON   
are Trademarks of a Syngenta Group Company

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For non-emergency (e.g., current product information),  
call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

**SCP 1498A-L1C 0420**



# STERI-FAB®

BACTERICIDE • SANITIZER • FUNGICIDE  
MILDEWCIDE • INSECTICIDE • DEODORANT  
GERMICIDE • VIRICIDE\*

**STERI-FAB IS EFFECTIVE AGAINST MOST GRAM NEGATIVE  
AND GRAM POSITIVE AND ODOR CAUSING BACTERIA  
AS WELL AS INSECTS, FUNGUS, MOLD AND MILDEW.**

**BEFORE APPLYING STERI-FAB MAKE SURE THAT NOZZLE IS SET AT FINE SPRAY.**

#### ACTIVE INGREDIENTS:

|                                                                                                                    |        |
|--------------------------------------------------------------------------------------------------------------------|--------|
| * 3-PHENOXYBENZYL D-CIS AND TRANS * 2,2-DIMETHYL-3-<br>(2-METHYLPROPENYL) CYCLOPROPANECARBOXYLATE .....            | 0.22%  |
| ISOPROPYL ALCOHOL .....                                                                                            | 60.39% |
| DIDECYL DIMETHYL AMMONIUM CHLORIDE .....                                                                           | 0.114% |
| N-ALKYL (C <sub>14</sub> 50%, C <sub>12</sub> 40%, C <sub>16</sub> 10%)<br>DIMETHYL BENZYL AMMONIUM CHLORIDE ..... | 0.076% |
| INERT INGREDIENTS: .....                                                                                           | 39.20% |

\* D-CIS TRANS PHENOTHRIN

\*\* CIS/TRANS ISOMER RATION: MAX .25%(+OR-) CIS MIN .75%(+OR-) TRANS  
Shake Well Before And During Use.

**WARNING: Keep Out Of Reach Of Children.**

See First Aid Statements and other Precautions.

FOR INSTITUTIONAL USE • MADE IN U.S.A.

**NOBLE PINE PRODUCTS CO.**

Centuck Station • Yonkers, NY 10710-0041

**NET CONTENTS 1 PINT (16 FL. OZ.)**

#### PRECAUTIONARY STATEMENTS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS.

**WARNING:** Harmful if inhaled. Causes eye and skin irritation. Do not breath vapors or spray mist. Do not get in eyes. Avoid contact with skin.

#### FIRST AID

|                                |                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If in eyes:</b>             | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>                                                       |
| <b>If on skin or clothing:</b> | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>                                                                                                                         |
| <b>If inhaled:</b>             | <ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.</li></ul>                                                                                                                                     |
| <b>If swallowed:</b>           | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |

#### HOT LINE NUMBERS

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800 CHEMTREC for emergency medical treatment information.

**PHYSICAL OR CHEMICAL HAZARDS:** Flammable. Keep away from heat and open flame.

#### STORAGE AND DISPOSAL

|                  |                                                                                                                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STORAGE:</b>  | Keep from freezing. Store in ventilated areas. Do not contaminate water, food or feed by storage and disposal. Dispose leftovers in landfill approved for pesticides.                                                                   |
| <b>DISPOSAL:</b> | Large containers (55 gallon drums and 5 gallon pails): Do not reuse empty container. Triple rinse and dispose in landfill approved for pesticide disposal. Small container (1 gallon or less): Rinse thoroughly and discard with trash. |

EPA EST. NO. 00397NY01

EPA REG. NO. 397-13

# STERI-FAB®

BACTERICIDE • SANITIZER • FUNGICIDE • MILDEWCIDE  
INSECTICIDE • DEODORANT • GERMICIDE • VIRICIDE\*  
**BEFORE APPLYING STERI-FAB, MAKE SURE THAT NOZZLE IS SET AT FINE SPRAY.**

## DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER  
INCONSISTENT WITH ITS LABELING.**

Surfaces and objects must be cleaned of gross filth before treatment. Spray surfaces and articles until thoroughly dampened and allow to remain wet for at least 10 minutes.

- **AS AN INSECTICIDE, BACTERICIDE, MOLD AND MILDEWCIDE, DEODORANT AND FUNGICIDE** spray surfaces and articles until thoroughly dampened and allow to remain wet for at least 10 minutes
- **TO KILL ROACHES, BEDBUGS, ANTS AND SILVERFISH:** The infested areas should be sprayed thoroughly and repeatedly, directing the spray into all crevices, cracks, hiding places, seams, creases and folds.
- **TO KILL LICE AND LOUSE EGGS:** The infested areas should be sprayed thoroughly and repeatedly, directing the spray into all crevices, cracks, hiding places, seams, creases and folds.
- **TO DEODORIZE AND CONTROL ODOR-CAUSING ORGANISMS ON CARPETS,** apply STERI-FAB thoroughly to top and undersides of rugs and carpets and mats to kill odor-causing bacteria and fungi and allow to remain wet for at least 10 minutes.
- **TO KILL FLEAS AND TICKS:** the infested area should be sprayed thoroughly and repeatedly directing the spray into all animal quarters and surrounding areas. For best results remove and destroy old animal bedding prior to use. Do not spray animals. Animals should be treated with an appropriate flea and tick spray designed for their use before they reenter the treated area.
- **TO KILL SOWBUGS, CENTIPEDES, FIREBRATS AND MITES:** The infested area should be sprayed thoroughly and repeatedly directing the spray into all crevices, cracks and other hiding places.
- **TO SANITIZE AND DEODORIZE RESTROOMS:** Apply STERI-FAB on all surfaces (avoiding contact with food and animals) until a moist surface is obtained and allow to remain wet for at least 10 minutes.
- **TO PROVIDE FOR BACTERIOSTATIC, FUNGISTATIC AND DEODORIZATION DURING RESTORATION PROCESSES:** Apply STERI-FAB to all surfaces until a moist surface is obtained and allow to remain wet for at least 10 minutes.
- **TO SANITIZE ON PRE-CLEANED, NON-POROUS, NON-FOOD CONTACT SURFACES:** Apply STERI-FAB to all surfaces until a dewlike mist is obtained and allow to remain wet for at least 10 minutes. The suggested quantities of STERI-FAB when used as directed, furnishes good coverage on these surfaces providing for sanitizing, bacteriostatic, and fungistatic values. Using a hand or power sprayer, keeping approximately one foot from surface to be sprayed, apply STERI-FAB over all surfaces until thoroughly dampened coverage is obtained. Be sure that all folds, creases, seams, etc., are also covered in this manner. Allow treated items to remain wet for at least 10 minutes and then dry before using.

#### FOR BACTERIOSTATIC, FUNGISTATIC AND DEODORIZATION

- **MATTRESSES (SURFACES):** Spray coverage varies from 4-8 ounces depending on size. Single bed and folding cot mattresses use 4-5 ounces of STERI-FAB. Double bed mattresses use 6-8 ounces of STERI-FAB.
- **SOFAS-UPHOLSTERED CHAIRS (SURFACES):** Small sizes such as love seats use 4-5 ounces STERI-FAB. Regular size sofas use 6-8 ounces. Use 8 ounces of STERI-FAB on convertible sofas.

#### FOR DISINFECTION OF NON-POROUS SURFACES

- **FOR THE DISINFECTION OF NON-UPHOLSTERED CHAIRS, BED SPRINGS, AND FURNITURE (THOSE WITH NON- POROUS SURFACES),** STERI-FAB should be applied to all surfaces until a dew-like appearance is obtained and allow to remain wet for at least 10 minutes.
- **\* TO KILL HERPES SIMPLEX TYPE 2** on non-porous surfaces, apply STERI-FAB until thoroughly dampened coverage is obtained and allow to remain wet for at least 10 minutes.
- **TO KILL ATHELETE'S FOOT FUNGUS,** apply STERI-FAB to all suspected or contaminated non-porous hard surfaces until thoroughly dampened and allow to remain wet for at least 10 minutes.

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/22/2015

Reviewed on 07/22/2015

## 1 Identification

- **Product identifier**
- **Trade name:** STERI FAB®
- **Article number:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Disinfectant
- **Restrictions on use:** No further relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Noble Pine Products, Inc. - Castoleum Corporation  
P.O. BOX 41 - CENTUCK STATION  
YONKERS, NY 10710-0041  
914-664-5877
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

- 
- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

propan-2-ol

- **Hazard statements**

H226 Flammable liquid and vapor.

(Contd. on page 2)



# Safety Data Sheet

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Trade name: STERI FAB®

(Contd. of page 1)

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

P261 Avoid breathing mist, vapors, or spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves and eye protection.

P233 Keep container tightly closed.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 3

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 3

Reactivity = 0

\* - Indicates a long term health hazard from repeated or prolonged exposures.

**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

## 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

Description: Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

|         |                                     |        |
|---------|-------------------------------------|--------|
| 67-63-0 | propan-2-ol                         | 60-80% |
|         | Flam. Liq. 2, H225                  |        |
|         | Eye Irrit. 2, H319; STOT SE 3, H336 |        |

(Contd. on page 3)

# Safety Data Sheet

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Printing date 07/22/2015

Reviewed on 07/22/2015

Trade name: STERI FAB®

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|            |                                                                                                                                                                                                               |       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 26002-80-2 | 3-phenoxybenzyl 2-dimethyl-3-(methylpropenyl)cyclopropanecarboxylate                                                                                                                                          | <1.0% |
| 7173-51-5  | didecyldimethylammonium chloride                                                                                                                                                                              | <1.0% |
|            |  Skin Corr. 1B, H314<br> Acute Tox. 4, H302 |       |

· **Additional information:**

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

## 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Protect unharmed eye.

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

Headache

Breathing difficulty

Dizziness

Coughing

Irritant to eyes.

Gastric or intestinal disorders when ingested.

Nausea

Acidosis

Disorientation

· **Danger** Vapors have narcotic effect.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Alcohol resistant foam

Water

Carbon dioxide

Gaseous extinguishing agents

(Contd. on page 4)

# Safety Data Sheet

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Printing date 07/22/2015

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Trade name: STERI FAB®

(Contd. of page 3)

- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Eliminate all ignition sources if safe to do so.  
Cool endangered receptacles with water in flooding quantities.  
Use large quantities of foam as it is partially destroyed by the product.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.  
Keep away from ignition sources.  
Protect from heat.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose contaminated material as waste according to item 13.  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Use only in well ventilated areas.  
Prevent formation of aerosols.  
Avoid splashes or spray in enclosed areas.
- **Information about protection against explosions and fires:**  
Highly flammable liquid and vapor.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.  
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/22/2015

Reviewed on 07/22/2015

Trade name: STERI FAB®

(Contd. of page 4)

Store away from oxidizing agents.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

### Components with limit values that require monitoring at the workplace:

#### 67-63-0 propan-2-ol

|               |                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------|
| PEL (USA)     | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm                                                       |
| REL (USA)     | Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 980 mg/m <sup>3</sup> , 400 ppm |
| TLV (USA)     | Short-term value: 984 mg/m <sup>3</sup> , 400 ppm<br>Long-term value: 492 mg/m <sup>3</sup> , 200 ppm  |
| EL (Canada)   | Short-term value: 400 ppm<br>Long-term value: 200 ppm                                                  |
| EV (Canada)   | Short-term value: 400 ppm<br>Long-term value: 200 ppm                                                  |
| LMPE (Mexico) | Short-term value: 400 ppm<br>Long-term value: 200 ppm<br>A4, IBE                                       |

### Ingredients with biological limit values:

#### 67-63-0 propan-2-ol

|           |                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------|
| BEI (USA) | 40 mg/L<br>Medium: urine<br>Time: end of shift at end of workweek<br>Parameter: Acetone (background, nonspecific) |
|-----------|-------------------------------------------------------------------------------------------------------------------|

- **Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

### Personal protective equipment:

### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.

- **Engineering controls:** No further relevant information available.

### Breathing equipment:

Not required under normal conditions of use.  
 Use suitable respiratory protective device when high concentrations are present.  
 For large spills, respiratory protection may be advisable.

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**

Safety glasses

· **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

· **Limitation and supervision of exposure into the environment** Avoid release to the environment.· **Risk management measures** See Section 7 for additional information.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:

Liquid

Color:

Colorless

· **Odor:**

Alcohol-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

80 °C (176 °F)

· **Flash point:**

28 °C (82 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Auto-ignition temperature:**

Not determined.

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

· **Vapor pressure at 20 °C (68 °F):**

59 mmHg

· **Density at 20 °C (68 °F):**<1 g/cm<sup>3</sup> (<8.345 lbs/gal)· **Relative density**

Not determined.

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- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.
- **Possibility of hazardous reactions**  
Flammable liquid and vapor.  
Reacts violently with oxidizing agents.  
Toxic fumes may be released if heated above the decomposition point.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidizing agents.
- **Incompatible materials:** Oxidizing agents
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### LD/LC50 values that are relevant for classification:

#### 67-63-0 propan-2-ol

|            |         |                      |
|------------|---------|----------------------|
| Oral       | LD50    | 5045 mg/kg (rat)     |
| Dermal     | LD50    | 12800 mg/kg (rabbit) |
| Inhalative | LC50/4h | 30 mg/l (rat)        |

- **Primary irritant effect:**
  - on the skin:** Slight irritant effect on skin and mucous membranes.
  - on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** No further relevant information available.

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- **Additional toxicological information:**

Irritant

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Probable Routes of Exposure**

Inhalation.

Eye contact.

Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Vapors have narcotic effect.

Irritating to eyes.

- **Repeated Dose Toxicity:** No further relevant information available.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** None.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** The product contains materials that are harmful to the environment.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Harmful to algae

- **Additional ecological information:**

- **General notes:**

This statement was deduced from the properties of the single components.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Smaller quantities can be disposed of with household waste.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA**
- **UN proper shipping name**

UN1993



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

- **DOT**
- **ADR**
- **IMDG, IATA**
- **Transport hazard class(es)**

Flammable liquids, n.o.s. (Isopropanol mixture)  
 1993 FLAMMABLE LIQUID, N.O.S. (Isopropanol mixture)  
 FLAMMABLE LIQUID, N.O.S. (Isopropanol mixture)

- **DOT**



- **Class**
- **Label**

3 Flammable liquids  
 3

- **ADR**



- **Class**
- **Label**

3 (F1) Flammable liquids  
 3

- **IMDG, IATA**



- **Class**
- **Label**
- **Packing group**
- **DOT, ADR, IMDG, IATA**
- **Environmental hazards:**
- **Marine pollutant:**
- **Special precautions for user**

3 Flammable liquids  
 3  
 III  
 No  
 Warning: Flammable liquids

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- **Danger code (Kemler):** 30
- **EMS Number:** F-E, S-E
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN1993, Flammable liquids, n.o.s. (Isopropanol mixture), 3, III

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

### · **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

### · **Section 313 (Specific toxic chemical listings):**

67-63-0 | propan-2-ol

### · **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

### · **Proposition 65 (California)**

#### · **Chemicals known to cause cancer:**

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 | ethanol

#### · **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

#### · **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

#### · **Chemicals known to cause developmental toxicity:**

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 | ethanol

#### · **Carcinogenic categories**

#### · **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

#### · **Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)**

EPA Product Registration : 397-13.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

### **PRECAUTIONARY STATEMENTS**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### **WARNING:**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin. Avoid breathing vapor or spray mist. Wear goggles or face shield, long sleeved shirt, long pants, socks, shoes and chemical-resistant gloves made of any waterproof material. Remove and wash contaminated clothing before reuse. Wash thoroughly with

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soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. See Directions for Use for additional precautions and requirements.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

Flammable. Keep away from heat and open flame.

**FIRST AID**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing call 911 or ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

**HOT LINE NUMBERS**

Have the product container or label with you when calling a poison control center or going for treatment. You may also contact CHEMTEL 1-800-255-3924 for emergency medical treatment information.

**STORAGE AND DISPOSAL****PESTICIDE STORAGE**

Keep from freezing. Store in ventilated areas. Do not contaminate water, food or feed by storage and disposal. Dispose leftovers in landfill approved for pesticides.

**CONTAINER DISPOSAL**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or discard in trash.

|                                                             |             |   |
|-------------------------------------------------------------|-------------|---|
| · <b>IARC (International Agency for Research on Cancer)</b> |             |   |
| 67-63-0                                                     | propan-2-ol | 3 |

|                                                           |             |    |
|-----------------------------------------------------------|-------------|----|
| · <b>TLV (Threshold Limit Value established by ACGIH)</b> |             |    |
| 67-63-0                                                   | propan-2-ol | A4 |

|                                                                           |  |  |
|---------------------------------------------------------------------------|--|--|
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> |  |  |
| None of the ingredients is listed.                                        |  |  |

|                                       |  |  |
|---------------------------------------|--|--|
| · <b>State Right to Know Listings</b> |  |  |
| None of the ingredients is listed.    |  |  |

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- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

67-63-0 | propan-2-ol

- **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 07/22/2015 / -

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

- **Sources**

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)



INDOXACARB GROUP 22A INSECTICIDE

**ACTIVE INGREDIENT:**

Indoxacarb\* ..... 0.05%

**OTHER INGREDIENTS:** ..... 99.95%**TOTAL:** ..... 100.00%

\*Indoxacarb belongs to the oxadiazine chemical class.

Manufactured for:

Target Specialty Products, 15415 S. Marquardt Ave, Santa Fe Springs, CA 90670

EPA Reg. No: 53883-466-82540, EPA Est. No: 71106-GA-3

Net Contents: 1.06 oz. (30 g)

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.

See side/back/inside panel(s) for Precautionary Statements, Directions for Use and Storage and Disposal.

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

READ ALL DIRECTIONS COMPLETELY BEFORE USE.

Strike Max Alacer Ant Gel Bait is applied as a crack and crevice or spot treatment to indoor or outdoor sites where ant infestations are a problem.

Kills ants\* in and around residential, institutional, commercial and industrial areas. These sites include inside residential buildings (including apartments and single and multi-family buildings), commercial and industrial facilities (including warehouses, supermarkets, restaurants, motels, hotels, hospitals & nursing facilities, zoos, food handling/storage establishments), schools, day care facilities, transportation equipment (including aircraft, trains, ships, boats, cars, trucks, semi trucks, and buses) and other similar sites where ant infestations or activity can be problematic. \*except Pharaoh ants

Strike Max Alacer Ant Gel Bait is specifically formulated to be attractive to all\* major pest species of ants. This product kills ants\* such as Acrobat, Argentine, Big-Headed, Carpenter, Cornfield, Crazy, Field, Ghost, Honey, Little Black, Odorous House, Pavement, Pyramid, Red Imported Fire Ant, Rover, Thief and White-footed. For complete control of outdoor nests of Harvester and Red Imported Fire Ants, use additional treatments labeled for outdoor management of these pest species.

\*except Pharaoh

**USE RESTRICTIONS:**

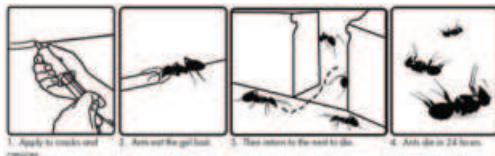
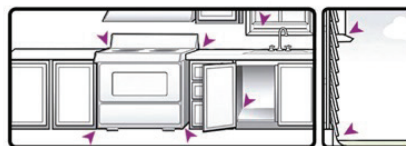
- **DO NOT** treat areas that are easily accessible to children, domestic animals and pets.
- **DO NOT** apply to surfaces that food contacts.
- **DO NOT** allow open foods to contact gel material.

**USE PRECAUTIONS:**

- Avoid applying Strike Max Alacer Ant Gel Bait to surfaces recently treated with repellent residual sprays.
- **DO NOT** apply repellent residual sprays to surfaces treated with Strike Max Alacer Ant Gel Bait.

**APPLICATION INSTRUCTIONS AND USE RATES**

- Strike Max Alacer Ant Gel Bait may be applied as spots or small beads of gel.
- Spots or beads of gel should be applied to areas where ants are active, to foraging trails, or nest sites.
- For spot applications: apply 0.1 to 1.0 gram of Strike Max Alacer Ant Gel Bait per spot. Spots should be approximately ¼" in diameter. Make as many placements as necessary.
- For bead applications: apply Strike Max Alacer Ant Gel Bait as a bead approximately 1/8" wide and 2" long; for highly active foraging trails, extend the bead up to 3".
- When making applications of gel, avoiding disrupting the natural foraging of ants.
- If the ant nest can be located, inject up to 2.0 grams of bait directly into the nest or harborage entrance.
- For applications into commercially available refillable bait stations, apply only an appropriate amount of Strike Max Alacer Ant Gel Bait so the bait does not spill from the station and the station is not over-filled.
- After application, inspect bait placements for consumption/activity. If needed, apply additional Strike Max Alacer Ant Gel Bait and reapply bait in the same location if all the bait is consumed or in a different area if new ant activity is observed.

**HOW IT WORKS****WHERE IT WORKS****INDOOR APPLICATION DIRECTIONS**

- Carefully inspect infested areas to determine infestation levels, where ants are foraging, nesting sites, and specific areas where bait should be applied.
- Bait should be applied indoors into cracks and crevices along walls, ceilings or floors, cabinets, behind or under equipment or appliances, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, or other inaccessible areas indoors.
- Bait applications may also be made between elements of construction, behind baseboards or molding, at openings into voids, and within hollow spaces in equipment bases and legs, near sinks or stoves, and in bathrooms.
- If using refillable bait stations, place the stations where ants are foraging or near their trails or nests. Inspect gel placements regularly and replace gel with fresh gel as needed.

## APPLICATIONS IN FOOD/FEED HANDLING AREAS

Apply Strike Max Alacer Ant Gel Bait only as a crack and crevice application to food/feed areas of food/feed handling establishments. Applications may be made while the facility is in operation. Place the bait dispenser directly into the crack or crevice, hole or other similar opening where ants are found or suspected and dispense bait. Food and feed handling areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed, and facility is in operation. Use good application practice to avoid movement of Strike Max Alacer Ant Gel Bait to exposed surfaces used for food preparation.

### Food/Feed Handling Use Restrictions:

- **DO NOT** apply Strike Max Alacer Ant Gel Bait to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- **DO NOT** apply Strike Max Alacer Ant Gel Bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- **DO NOT** apply Strike Max Alacer Ant Gel Bait to surfaces where the temperature exceeds 120 - 130°F because this could cause the bait to liquefy and lose effectiveness.
- Examples include, but are not limited to, heat producing equipment, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.

If Strike Max Alacer Ant Gel Bait contacts an exposed surface, first remove as much of the gel bait as possible, then wash area with soap and water.

## APPLICATIONS IN NON-FOOD/NON-FEED HANDLING AREAS

Strike Max Alacer Ant Gel Bait can be used as a spot or crack and crevice treatment in areas inaccessible to children and pets to control ants in residential structures and the non-food/non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Non-food/non-feed areas include garbage rooms, lavatories, floor drains (to sewers), entries, vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning).

## WAX PAPER APPLICATION

For gel bait applications under appliances and other similar areas, or to protect the bait from possible existing contamination, apply the bait using 2-3" wax paper squares. Fold the wax paper in half to make a triangle and apply the 1/8" wide and 2" long bait bead in the center. Place the folded wax paper containing the bait into the appropriate bait placement location. Wax paper squares can easily be inspected, removed and/or replaced as needed.

## OUTDOOR APPLICATION DIRECTIONS

- Thoroughly inspect around structures for entry points, openings, and other similar areas where ants can access and crawl in.
- If access points are identified, make effort to remove or patch to prevent entry into structure.
- Apply spots or beads of Strike Max Alacer Ant Gel Bait (see application rates for all uses) to windows, doors, between construction elements, sewer areas, adjacent ant harborage (trees, ornamental plants), along walls, garbage holding areas, or other suitable placement sites.
- Apply Strike Max Alacer Ant Gel Bait to suitable areas to reduce the potential of subsequent human contact.
- After application, inspect bait placements for consumption/activity and apply fresh ant gel as needed.
- If outdoor temperatures are high, the consistency of the gel may

be affected. Inspect placements after application to determine if additional gel is needed.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals, in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING: DO NOT** reuse or refill this container. Offer to recycling if available. Place empty bait dispensers in trash. **If partially filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

## WARRANTY STATEMENT

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Target Specialty Products or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Target Specialty Products and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, Target Specialty Products warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or TARGET SPECIALTY PRODUCTS, and Buyer and User assume the risk of any such use. TARGET SPECIALTY PRODUCTS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, IT IS TARGET SPECIALTY PRODUCTS, AND SELLERS INTENTION THAT in no event shall Control Solutions or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF TARGET SPECIALTY PRODUCTS, AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF TARGET SPECIALTY PRODUCTS OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

To the extent consistent with applicable law, Target Specialty Products and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Target Specialty Products.



# SAFETY DATA SHEET

## Strike Max Alacer Ant Gel Bait

Page 1 of 6  
Revision Date: March 17, 2023

### SECTION 1: IDENTIFICATION

**Product Name:** Strike Max Alacer Ant Gel Bait  
**EPA Registration No.:** 53883-466-82540  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** Oxadiazine  
**Chemical Name of Active Ingredient(s):** Indoxacarb  
**Manufactured for:** Target Specialty Products  
15415 S. Marquardt Ave  
Santa Fe Springs, CA 90670

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Gel with a moderately sweet odor.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

This product does not meet the regulatory definition of a hazardous chemical under 29 CFR 1910.1200. However, good industrial hygiene practices should be used in the manufacture and handling of the product.

**Signal Word:** CAUTION FIFRA label signal word  
**Hazard Statement(s):** No statements required  
**Precautionary Statement(s):**  
**Prevention:** No statements required  
**Response:** No statements required  
**Storage:** No statements required  
**Disposal:** No statements required

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number  | Weight % |
|---------------|-------------|----------|
| Indoxacarb    | 173584-44-6 | 0.05%    |

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

### SECTION 4: FIRST AID MEASURES

|                    |                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF IN EYES:</b> | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| <b>IF ON SKIN:</b> | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.                                                                   |

|                     |                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF INHALED:</b>  | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                           |
| <b>IF INGESTED:</b> | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

**Most important symptoms/effects, acute and delayed:** None known

#### SECTION 5: FIRE-FIGHTING MEASURES

|                                                        |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media:</b>                   | Foam, dry chemical, carbon dioxide or water spray                                                                                                                                                                                                                                                                                                       |
| <b>Unsuitable Extinguishing Media:</b>                 | Water jet                                                                                                                                                                                                                                                                                                                                               |
| <b>Hazardous Combustion Products:</b>                  | Thermal decomposition may produce toxic oxides of carbon and nitrogen.                                                                                                                                                                                                                                                                                  |
| <b>Special Protective Equipment &amp; Precautions:</b> | Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). |
| <b>Unusual Fire &amp; Explosion Hazards:</b>           | None known                                                                                                                                                                                                                                                                                                                                              |

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

|                                   |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions:</b>      | See Section 8 for personal protection equipment.                                                                                                                                                                                                                                                                                                                     |
| <b>Environmental Precautions:</b> | Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.                                                                                                                                                                                                                                      |
| <b>Methods for Containment:</b>   | Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. |
| <b>Methods for Clean-up:</b>      | Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.                                                                                      |
| <b>Other Information:</b>         | None known                                                                                                                                                                                                                                                                                                                                                           |

#### SECTION 7: HANDLING AND STORAGE

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b> | RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Product will stain porous surfaces. |
| <b>Storage:</b>  | <b>See pesticide label for full information on product storage.</b> Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and                                                                                                                                                                                                                                                                             |

away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**Storage Temperature (Min/Max):** Not determined  
**Product Incompatibilities:** Not determined

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

##### Exposure Guidelines:

| COMPONENT   | OSHA PEL | ACGIH TLV | NIOSH REL |
|-------------|----------|-----------|-----------|
| None listed |          |           |           |

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and chemical resistant footwear plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                |                                         |                |
|---------------------------------|----------------|-----------------------------------------|----------------|
| <b>Appearance:</b>              | Paste          | <b>Upper/Lower Flammability Limits:</b> | Not determined |
| <b>Odor:</b>                    | Sweet          | <b>Vapor Pressure:</b>                  | Not determined |
| <b>Odor Threshold:</b>          | Not determined | <b>Vapor Density:</b>                   | Not determined |
| <b>pH (1% dispersion):</b>      | Not determined | <b>Bulk Density (@ambient temp.):</b>   | Not determined |
| <b>Melting /Freezing Point:</b> | Not determined | <b>Solubility:</b>                      | Not determined |
| <b>Boiling Point/Range:</b>     | Not determined | <b>Partition Coefficient:</b>           | Not determined |
| <b>Flash Point:</b>             | Not determined | <b>Auto-ignition Temperature:</b>       | Not determined |
| <b>Evaporation Rate:</b>        | Not determined | <b>Decomposition Temperature:</b>       | Not determined |
| <b>Flammability:</b>            | Not applicable | <b>Viscosity:</b>                       | Not applicable |



**SECTION 10: STABILITY AND REACTIVITY**

|                                            |                                                                        |
|--------------------------------------------|------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | No hazardous chemical reactions known.                                 |
| <b>Chemical Stability:</b>                 | Stable under normal storage and handling conditions.                   |
| <b>Possibility of Hazardous Reactions:</b> | No potential for hazardous reactions known.                            |
| <b>Conditions to Avoid:</b>                | Extreme temperatures, direct sunlight and exposure to moisture.        |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents                                                |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may produce toxic oxides of carbon and nitrogen. |

**SECTION 11: TOXICOLOGICAL INFORMATION**

|                                     |                                                                      |
|-------------------------------------|----------------------------------------------------------------------|
| <b>Likely Routes of Exposure:</b>   | Eye contact, Skin contact, Ingestion                                 |
| <b>Symptoms of Exposure:</b>        | None known                                                           |
| <b>Oral LD<sub>50</sub>:</b>        | >5,000 mg/kg (Based upon similar formulation)                        |
| <b>Dermal LD<sub>50</sub>:</b>      | >5,050 mg/kg (Based upon similar formulation)                        |
| <b>Inhalation LC<sub>50</sub>:</b>  | No data available, not a likely route of exposure                    |
| <b>Eye Irritation/Damage:</b>       | Non-irritant (rabbit)(Based upon similar formulation)                |
| <b>Skin Corrosion/Irritation:</b>   | Non-irritant (rabbit)(Based upon similar formulation)                |
| <b>Skin Sensitization:</b>          | Non-Sensitizer (based upon similar formulation)                      |
| <b>Chronic/Subchronic Toxicity:</b> | No data available                                                    |
| <b>Mutagenicity:</b>                | No data available                                                    |
| <b>Reproductive Toxicity:</b>       | No data available                                                    |
| <b>Neurotoxicity:</b>               | No data available                                                    |
| <b>Target Organs:</b>               | No data available                                                    |
| <b>Aspiration Hazard:</b>           | Not anticipated to be an aspiration hazard based upon physical form. |
| <b>Carcinogenicity:</b>             |                                                                      |

| Chemical Name        | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
| No components listed |       |      |     |      |

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| <b><u>ECOTOXICITY DATA:</u></b>       | Data presented below is on the indoxacarb technical product. |
| <b>Fish Toxicity:</b>                 | Rainbow Trout: 96-hour LC <sub>50</sub> = 0.65 mg/L          |
| <b>Aquatic Invertebrate Toxicity:</b> | <i>Daphnia magna</i> : 96-hour EC <sub>50</sub> = 0.60 mg/L  |
| <b>Aquatic Plant Toxicity:</b>        | No data available                                            |
| <b>Avian Toxicity:</b>                | Bobwhite quail: Oral LD <sub>50</sub> = 98 mg/kg             |
| <b>Honeybee Toxicity:</b>             | No data available                                            |

**ENVIRONMENTAL EFFECTS:**

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Persistence and Degradability:</b> | No data available |
| <b>Bioaccumulation:</b>               | No data available |

**Mobility:** No data available  
**Other Adverse Effects:** No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

**Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT (Ground):** Not regulated  
**IMDG (Sea):** Not regulated  
**IATA (Air):** Not regulated

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under FIFRA:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Product not yet registered and precautionary language not yet determined.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** None

**Section 313** – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % | SARA 313 – Threshold Values (lbs) |
|---------------|------------|----------|-----------------------------------|
| None listed   |            |          |                                   |

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of Finished Product |
|---------------|------------|----|------------------------------|
| None listed   |            |    |                              |

**CALIFORNIA PROPOSITION 65:**

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------|------------|-----------------------|
| None listed   |            |                       |

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| None listed   |            |               |              |

**SECTION 16: OTHER INFORMATION**

|             |                         |                       |                      |                               |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 1 | <b>Flammability</b> 0 | <b>Instability</b> 0 | <b>Special Hazards</b> – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

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**Revision Date:** March 17, 2023  
**Document Superseded:** N/A – New document  
**Revision Note:**



INDOXACARB GROUP 22A INSECTICIDE

## FOR USE IN COMMERCIAL, INDUSTRIAL, INSTITUTIONAL AND RESIDENTIAL AREAS

### ACTIVE INGREDIENTS:

Indoxacarb ..... 0.6%

OTHER INGREDIENTS: ..... 99.4%

TOTAL: ..... 100.00%

### Manufactured for:

Target Specialty Products, 15415 S. Marquardt Ave, Santa Fe Springs, CA 90670

EPA Reg. No. 53883-424-82540, EPA Est. No. 071106-GA-003

Net Contents: 1.06 oz. (30 g)

### KEEP OUT OF REACH OF CHILDREN CAUTION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.

### DO NOT TREAT AREAS THAT ARE EASILY ACCESSIBLE TO CHILDREN AND PETS.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

All handlers must wear long-sleeved shirts, long pants, shoes and socks.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

### PHYSICAL AND CHEMICAL HAZARDS

Do not use this product in or on electrical equipment where possibility of shock hazard exists.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use Strike Max Alacer Roach Gel Bait as a spot or crack and crevice treatment for the indoor and outdoor (adjacent to homes & structures) control of cockroaches.

Strike Max Alacer Roach Gel Bait is designed to control pest species of cockroaches such as German, American, Australian, Smoky-Brown, Brown, Asian, Oriental, and Brown-Banded.

### USE RESTRICTIONS:

- Do not treat areas that are easily accessible to children and pets.
- Do not treat food preparation surfaces. Keep gel away from foods and food contact surfaces.
- Do not allow open foods to contact gel material.
- Do not apply Strike Max Alacer Roach Gel Bait to surfaces recently treated with repellent residual sprays.

• Do not apply repellent residual sprays to surfaces treated with Strike Max Alacer Roach Gel Bait.

• In pet shops and zoos place bait out of reach of pets and zoo animals.

### APPLICATION DIRECTIONS

Apply Strike Max Alacer Roach Gel Bait to areas frequented by cockroaches such as between different elements of construction, between equipment and floors, openings leading into voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, and behind and under appliances, cabinets, sinks, closets, and any other equipment that cockroaches are typically known to hide.

| Treatment Rates for All Uses |                                 |                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cockroach Infestation Level  | Treatment Rate                  | Specific Instructions                                                                                                                                                                                                                                 |
| Heavy                        | 3 to 5 spots per 10 linear feet | • Each spot of Strike Max Alacer Roach Gel Bait must equal about 0.5 grams (approx. 1/4" diameter)<br>• When a bead of Strike Max Alacer Roach Gel Bait is used, apply a small thin bead that is less than 1/8" wide and approximately 2 inches long. |
| Light to Moderate            | 1 to 3 spots per 10 linear feet |                                                                                                                                                                                                                                                       |

### INDOOR USE DIRECTIONS

Strike Max Alacer Roach Gel Bait can be used in residential areas and the non-food/non-feed areas of institutional, warehousing and commercial establishments, including warehouses, restaurants, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, apartment buildings, bakeries, beverage plants, breweries, bottling facilities, candy plants, canneries, cereal processing and manufacturing plants, dairies and dairy product processing plants, frozen food plants, schools, laboratories, computer facilities, sewers, aircraft, buses, boats/ships, trains, homes, houses, industrial buildings, office buildings, kennels, kitchens, manufacturing facilities, spice plants, stores, wineries and similar structures, mausoleums, meat processing and packaging plants, meat and vegetable canneries, pet shops, and zoos. Non-food/non-feed areas include bedrooms, living rooms, bathrooms, closets, media rooms, garbage rooms, lavatories, entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling). This product may also be used in food/feed areas of food/feed handling establishments as outlined below.

- Infested areas must be carefully inspected to determine overall infestation levels, locations of harborage areas, and most appropriate application points.
- Apply Strike Max Alacer Roach Gel Bait as a small spot of material, approximately 0.5 grams (approx. 1/4" in dia.), to areas not able to be contacted by children or pets.
- Several small applications distributed within an area are more effective than 1 or 2 applications of large quantities. In some cases, a small thin bead (less than 1/8" wide and 2" long) may be appropriate such as between construction elements or other cracks and crevices.
- Indoor applications include cracks and crevices along walls or floors, behind or under equipment, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect Strike Max Alacer Roach Gel Bait placements periodically for consumption or attractiveness and reapply as needed.

### APPLICATIONS IN FOOD/FEED HANDLING AREAS

Apply in food/feed areas of food handling establishments as a crack and crevice treatment only. Apply Advion Cockroach Gel Bait directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where cockroaches are found or are entering.

Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply Strike Max Alacer Roach Gel Bait to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply Strike Max Alacer Roach Gel Bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- Do not apply Strike Max Alacer Roach Gel Bait to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.
  - Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of Strike Max Alacer Roach Gel Bait to exposed surfaces used for food preparation.
- If Strike Max Alacer Roach Gel Bait contacts an exposed surface/first remove as much of the gel bait as possible, then wash with soap and water.

#### APPLICATIONS IN NON-FOOD/NON-FEED HANDLING AREAS

Strike Max Alacer Roach Gel Bait is designed to be used as a spot and crack and crevice treatment in non-food areas such as behind baseboards, behind cabinetry, under shelves/racks, garbage rooms, machine rooms, boiler rooms, garages, mop closets, storage rooms (after canning/bottling), locker rooms, lavatories, entry ways, floor drains (to sewers), and offices. If making applications in food/feed handling areas, refer to section above: Applications in Food/Feed Handling Areas.

#### OUTDOOR USE DIRECTIONS

A thorough inspection around a structure may reveal areas where cockroaches are gaining access. Attempts should be made to remove the access. Apply Strike Max Alacer Roach Gel Bait as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor cockroaches, along walls, garbage holding areas, or suitable placement site acting as a cockroach harborage. Place baits in such a way as to reduce the potential of subsequent human contact. Inspect CSI 15-107A2 Indox Roach Bait Gel placements periodically and apply fresh bait as needed.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry area out of reach of children and pets.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: Nonrefillable Container:** Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. **If partially filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

#### LIMITATION OF WARRANTY AND LIABILITY

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Target Specialty

Products or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Target Specialty Products and Seller harmless for any claims relating to such factors.

Target Specialty Products warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Target Specialty Products, and Buyer and User assume the risk of any such use. **Target Specialty Products MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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# SAFETY DATA SHEET

## Strike Max Alacer Roach Gel Bait

Page 1 of 7  
Revision Date: March 17, 2023

### SECTION 1: IDENTIFICATION

**Product Name:** Strike Max Alacer Roach Gel Bait  
**EPA Registration No.:** 53883-424-82540  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** Oxadiazine  
**Chemical Name of Active Ingredient(s):** Indoxacarb  
**Manufactured for:** Target Specialty Products  
15415 S. Marquardt Ave  
Santa Fe Springs, CA 90670

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Brown paste with a moderately sweet odor.

**OSHA HCS CLASSIFICATION (29 CFR 1910.1200)**

|                    |             |
|--------------------|-------------|
| Skin Sensitization | Category 1B |
|--------------------|-------------|

**Signal Word:** WARNING



**Hazard Statement(s):** May cause an allergic skin reaction.

**Precautionary Statement(s):**

**Prevention:** Avoid breathing dust.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.

**Response:** **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. See Section 4, First Aid Measures.  
Wash contaminated clothing before reuse.

**Storage:** No statement required. See section 7 for storage information.

**Disposal:** Dispose of in accordance with Federal, state and local laws and regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number  | Weight % |
|---------------|-------------|----------|
| Indoxacarb    | 173584-44-6 | 0.6%     |

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

| SECTION 4: FIRST AID MEASURES |                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF IN EYES:</b>            | Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.                                        |
| <b>IF ON SKIN:</b>            | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.                                                                                                          |
| <b>IF INHALED:</b>            | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                           |
| <b>IF INGESTED:</b>           | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |

**Most important symptoms/effects, acute and delayed:** Allergic skin reaction

**Note to Physician:** There is no specific antidote if this product is ingested. Treat symptomatically. Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

| SECTION 5: FIRE-FIGHTING MEASURES                      |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media:</b>                   | Foam, dry chemical, carbon dioxide or water spray                                                                                                                                                                                                                                                                                                       |
| <b>Unsuitable Extinguishing Media:</b>                 | Water jet                                                                                                                                                                                                                                                                                                                                               |
| <b>Hazardous Combustion Products:</b>                  | Thermal decomposition may produce toxic oxides of carbon and nitrogen.                                                                                                                                                                                                                                                                                  |
| <b>Special Protective Equipment &amp; Precautions:</b> | Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). |
| <b>Unusual Fire &amp; Explosion Hazards:</b>           | None known                                                                                                                                                                                                                                                                                                                                              |

| SECTION 6: ACCIDENTAL RELEASE MEASURES |                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions:</b>           | See Section 8 for personal protection equipment.                                                                                                                                                                                                                                                                                                                     |
| <b>Environmental Precautions:</b>      | Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.                                                                                                                                                                                                                                      |
| <b>Methods for Containment:</b>        | Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. |
| <b>Methods for Clean-up:</b>           | Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.                                                                                      |
| <b>Other Information:</b>              | None known                                                                                                                                                                                                                                                                                                                                                           |

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Product will stain porous surfaces.

**Storage:** **See pesticide label for full information on product storage.** Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**Storage Temperature (Min/Max):** Not determined

**Product Incompatibilities:** Strong oxidizing agents

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Users of a pesticide product must refer to the product label for personal protective equipment requirements.**

**Exposure Guidelines:**

| COMPONENT   | OSHA PEL | ACGIH TLV | NIOSH REL |
|-------------|----------|-----------|-----------|
| None listed |          |           |           |

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and chemical resistant footwear plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.



**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                 |                |                                         |                                                       |
|---------------------------------|----------------|-----------------------------------------|-------------------------------------------------------|
| <b>Appearance:</b>              | Brown Paste    | <b>Upper/Lower Flammability Limits:</b> | Not determined                                        |
| <b>Odor:</b>                    | Sweet          | <b>Vapor Pressure:</b>                  | Not determined                                        |
| <b>Odor Threshold:</b>          | Not determined | <b>Vapor Density:</b>                   | Not determined                                        |
| <b>pH (1% dispersion):</b>      | 5.8 – 6.2      | <b>Bulk Density (@ambient temp.):</b>   | 1.18 g/cm <sup>3</sup><br>(9.85 lbs/ft <sup>3</sup> ) |
| <b>Melting /Freezing Point:</b> | Not determined | <b>Solubility:</b>                      | Not determined                                        |
| <b>Boiling Point/Range:</b>     | Not determined | <b>Partition Coefficient:</b>           | Not determined                                        |
| <b>Flash Point:</b>             | Not determined | <b>Auto-ignition Temperature:</b>       | Not determined                                        |
| <b>Evaporation Rate:</b>        | Not determined | <b>Decomposition Temperature:</b>       | Not determined                                        |
| <b>Flammability:</b>            | Not applicable | <b>Viscosity:</b>                       | Not applicable                                        |

**SECTION 10: STABILITY AND REACTIVITY**

|                                            |                                                                        |
|--------------------------------------------|------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | No hazardous chemical reactions known.                                 |
| <b>Chemical Stability:</b>                 | Stable under normal storage and handling conditions.                   |
| <b>Possibility of Hazardous Reactions:</b> | No potential for hazardous reactions known.                            |
| <b>Conditions to Avoid:</b>                | Extreme temperatures, direct sunlight and exposure to moisture.        |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents                                                |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may produce toxic oxides of carbon and nitrogen. |

**SECTION 11: TOXICOLOGICAL INFORMATION**

|                                     |                                                                      |
|-------------------------------------|----------------------------------------------------------------------|
| <b>Likely Routes of Exposure:</b>   | Eye contact, Skin contact, Ingestion                                 |
| <b>Symptoms of Exposure:</b>        | None known                                                           |
| <b>Oral LD<sub>50</sub>:</b>        | >5,000 mg/kg (Based upon similar formulation)                        |
| <b>Dermal LD<sub>50</sub>:</b>      | >5,050 mg/kg (Based upon similar formulation)                        |
| <b>Inhalation LC<sub>50</sub>:</b>  | No data available, not a likely route of exposure                    |
| <b>Eye Irritation/Damage:</b>       | Non-irritant (rabbit)(Based upon similar formulation)                |
| <b>Skin Corrosion/Irritation:</b>   | Non-irritant (rabbit)(Based upon similar formulation)                |
| <b>Skin Sensitization:</b>          | Sensitizer (based upon component indoxacarb)                         |
| <b>Chronic/Subchronic Toxicity:</b> | No data available                                                    |
| <b>Mutagenicity:</b>                | No data available                                                    |
| <b>Reproductive Toxicity:</b>       | No data available                                                    |
| <b>Neurotoxicity:</b>               | No data available                                                    |
| <b>Target Organs:</b>               | No data available                                                    |
| <b>Aspiration Hazard:</b>           | Not anticipated to be an aspiration hazard based upon physical form. |
| <b>Carcinogenicity:</b>             |                                                                      |

| Chemical Name        | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
| No components listed |       |      |     |      |

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

**ECOTOXICITY DATA:**

Data presented below is on the indoxacarb technical product.

**Fish Toxicity:**

Rainbow Trout: 96-hour  $LC_{50}$  = 0.65 mg/L

**Aquatic Invertebrate Toxicity:**

*Daphnia magna*: 96-hour  $EC_{50}$  = 0.60 mg/L

**Aquatic Plant Toxicity:**

No data available

**Avian Toxicity:**

Bobwhite quail: Oral  $LD_{50}$  = 98 mg/kg

**Honeybee Toxicity:**

No data available

**ENVIRONMENTAL EFFECTS:**

**Persistence and Degradability:** No data available

**Bioaccumulation:** No data available

**Mobility:** No data available

**Other Adverse Effects:** No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

**Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT  
(Ground):** Not regulated

**IMDG  
(Sea):** Not regulated

**IATA  
(Air):** Not regulated

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under FIFRA:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** Delayed (Chronic)

**Section 313** – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % | SARA 313 – Threshold Values (lbs) |
|---------------|------------|----------|-----------------------------------|
| None listed   |            |          |                                   |

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of Finished Product |
|---------------|------------|----|------------------------------|
| None listed   |            |    |                              |

**CALIFORNIA PROPOSITION 65:**

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------|------------|-----------------------|
| None listed   |            |                       |

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| None listed   |            |               |              |

**SECTION 16: OTHER INFORMATION**

|             |                         |                       |                      |                               |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> 1 | <b>Flammability</b> 0 | <b>Instability</b> 0 | <b>Special Hazards</b> – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

**Disclaimer:** Control Solutions, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Control Solutions, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** March 17, 2023

**Document Superseded:** N/A – New Document

**Revision Note:**



# SureKill®

Advanced Insecticide Products

## Total Release Aerosol

**Water-Based Formula**  
**For Use indoors in Homes, Rooms, and Food and Non-Food Areas of Food Processing Plants, Restaurants, Industrial Buildings, Schools, Warehouses, Office Buildings, Theaters, Garages, Hotels, Motels, Hospitals, and Kennels**

### ACTIVE INGREDIENTS:

|                                                                                        |                |
|----------------------------------------------------------------------------------------|----------------|
| Pyrethrins.....                                                                        | 0.05%          |
| *Piperonyl butoxide.....                                                               | 0.10%          |
| **N-Octyl bicycloheptene dicarboximide.....                                            | 0.16%          |
| (S)-cyano(3-phenoxyphenyl)methyl-(S)-4-chloro-alpha-(1-methylethyl)benzeneacetate..... | 0.10%          |
| <b>OTHER INGREDIENTS:</b> .....                                                        | 99.59%         |
| <b>TOTAL</b> .....                                                                     | <b>100.00%</b> |

\*(butylcarbityl) (6-propylpiperonyl) ether and related compounds

\*\*MGK® 264, Insecticide Synergist

EPA Reg. No. 1021-1635-47000

EPA Est. No. 47000-IA-01

### KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel and inside leaflet for First Aid and additional Precautionary Statements  
See inside leaflet for complete Spanish translation

Distributed by: Chem-Tech, Ltd.

1006 Business Highway 5  
Pleasantville, IA 50225 U.S.A.

Chem-Tech, Ltd. is a wholly-owned subsidiary of Neogen Corporation.

Item No. 111511



0 45446 00126 6



Net Weight: 6 oz. (170.1 g)

## SureKill® Advanced Insecticide Products Total Release Aerosol

### ACTIVE INGREDIENTS:

|                                                                                        |                |
|----------------------------------------------------------------------------------------|----------------|
| Pyrethrins.....                                                                        | 0.05%          |
| *Piperonyl butoxide.....                                                               | 0.10%          |
| **N-Octyl bicycloheptene dicarboximide.....                                            | 0.16%          |
| (S)-cyano(3-phenoxyphenyl)methyl-(S)-4-chloro-alpha-(1-methylethyl)benzeneacetate..... | 0.10%          |
| <b>OTHER INGREDIENTS:</b> .....                                                        | <b>99.59%</b>  |
| <b>TOTAL</b> .....                                                                     | <b>100.00%</b> |

\*(butylcarbityl) (6-propylpiperonyl) ether and related compounds

\*\*MGK® 264, Insecticide Synergist

EPA Reg. No. 1021-1635-47000

EPA Est. No. 47000-IA-01

### KEEP OUT OF REACH OF CHILDREN CAUTION

See inside leaflet for First Aid and complete Directions for Use  
See inside leaflet for complete Spanish translation

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Breathing spray mist may be harmful. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### PHYSICAL OR CHEMICAL HAZARDS

Highly Flammable Ingredient



Ingrediente Altamente Inflamable

**Flammable.** Contents under pressure. Do not store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause a fire or explosion if not used properly. Follow the Directions for Use on this label very carefully.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

#### PESTICIDE STORAGE

Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

#### PESTICIDE DISPOSAL AND CONTAINER HANDLING

Do Not Puncture or Incinerate!

Non-refillable container. Do not reuse or refill this container.

If empty:

Place in trash or offer for recycling if available.

If partly filled:

Call your local solid waste agency for disposal instructions.

Distributed by: Chem-Tech, Ltd.

1006 Business Highway 5  
Pleasantville, IA 50225 U.S.A.

Chem-Tech, Ltd. is a wholly-owned subsidiary of Neogen Corporation. L5580-1117

Net Weight: 6 oz. (170.1 g)

FRONT OF CAN

BACK OF CAN (COVERED, NOT VISIBLE)  
BASE

(INSTRUCCIONES DE USO, *continuado*)

(*válvulas de cierre de gas*), *otras llamas abiertas o aparatos eléctricos que se apaguen o enciendan (p. ej., refrigeradores, termostatos, etc.)*. a su compañía de gas o empresa gerencial si necesita ayuda con sus llamas piloto.

Use solo un recipiente de nebulizador para tratar una habitación de hasta 27 pies x 27 pies con un techo de 8 pies o 6,000 pies cúbicos de espacio sin obstrucciones.

**ANTES DE NEBULIZAR:**

Retire o cubra los alimentos expuestos y el agua potable antes de la aplicación. Retire o cubra los platos, utensilios, equipo de procesamiento de alimentos y superficies de preparación de alimentos, o lávelos antes de usarlos.

Cierre las puertas y ventanas. Apague los ventiladores, aires acondicionados y el equipo de ventilación. Apague todas las llamas, llamas piloto y otras fuentes de ignición. Llame a su compañía de gas o empresa gerencial si necesita ayuda.

Retire las mascotas y aves, cubra y apague los acuarios de peces antes de activar el nebulizador. Coloque una silla, una mesa pequeña o un soporte en el centro de la habitación para ser tratada y cubra con papel periódico.

Cubra los pisos de madera y los muebles de madera en el área inmediata alrededor del nebulizador con periódicos o paños. Abra los gabinetes, alacenas, cajones, armarios y puertas en las áreas a tratar.

Llene y coloque la etiqueta colgante en la puerta del área tratada para alertar a la familia y a otras personas con acceso al área tratada de que no entren durante 2 horas.

AGITE BIEN ANTES DE USAR. MANTENGA EL CONTENEDOR EN POSICIÓN VERTICAL.

**PARA COMENZAR A NEBULIZAR:** Apunte el nebulizador lejos de la cara y ojos al dispensar (el contenedor pulveriza directamente hacia arriba). Para bloquear la válvula en posición abierta para la descarga automática, presione el botón de la válvula firmemente, hasta que encaje en su lugar. Rompa y quite la pestaña del lado del rociador. Incline el rociador lejos de la cara (el contenedor pulveriza directamente hacia arriba). Luego, coloque el nebulizador en el soporte o la mesa en el centro de la habitación.

**Desaloje inmediatamente la casa, unidad de apartamento individual u otra estructura tratada.** No permanezca en el área durante el tratamiento. Mantenga el área tratada cerrada durante 2 horas.

No vuelva a entrar durante 2 horas.

**VENTILAR:** Espere 2 horas después de la aplicación; luego, abra las ventanas, respiraderos y las puertas durante 2 horas. Si aún se puede detectar un olor, se requiere más ventilación.

**Para matar pulgas y garrapatas:** Destruya la cama vieja de la mascota y reemplácela con una limpia, después de completar el tratamiento. Use el producto como se indica arriba. Las mascotas deben tratarse con un producto registrado para el control de pulgas y garrapatas antes de volver a entrar a las instalaciones tratadas. Además, trate el patio con un producto registrado para la aplicación de patio.

**ALMACENAMIENTO Y ELIMINACIÓN**

No contamine el agua, los alimentos y piensos mediante el almacenamiento y eliminación.

**Almacenamiento de pesticidas**

Almacene en un área fresca y seca. Siempre guarde los pesticidas en su recipiente original. Almacene lejos de alimentos y comida para mascotas.

**Eliminación de pesticidas y manejo de contenedores**

[No perforo ni incinero el contenedor! Contenedor no rellenable. No reutilice o vuelva a llenar este contenedor. Si está vacío:

Coloque en la basura o reciclaje si está disponible.

Si está parcialmente lleno:

Llame a su agencia local de desechos sólidos para obtener instrucciones de eliminación.

Para casos que no sean de emergencia (p. ej., información actual del producto), llame al: **1-800-621-8829**.

5

| FIRST AID                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If on Skin or Clothing:                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>                                                                                   |
| If in Eyes:                                                                                                                                                                                                             | <ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eyes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>                |
| If Swallowed:                                                                                                                                                                                                           | <ul style="list-style-type: none"><li>Immediately call a poison control center or doctor.</li><li>Do not induce vomiting unless told to do so by a poison control center or a doctor.</li><li>Do not give any liquid to the person.</li><li>Do not give anything by mouth to an unconscious person.</li></ul> |
| If Inhaled:                                                                                                                                                                                                             | <ul style="list-style-type: none"><li>Move person to fresh air.</li><li>If person is not breathing, call 911 or an ambulance. Then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>Call a poison control center or doctor for further treatment advice.</li></ul>                |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call <b>1-888-740-8712</b> . |                                                                                                                                                                                                                                                                                                               |

| PRECAUTIONARY STATEMENTS                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| HAZARDS TO HUMANS AND DOMESTIC ANIMALS                                                                                                                                                                                                                                                                                                                                                                    |  |
| CAUTION                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Breathing spray mist may be harmful. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.                                                                      |  |
| PERSONAL PROTECTIVE EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                             |  |
| Applicators must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or Viton.                                                                                                                                                                                                                                |  |
| USER SAFETY REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separated from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.                                                                           |  |
| USER SAFETY RECOMMENDATIONS                                                                                                                                                                                                                                                                                                                                                                               |  |
| Users should wash hands before eating/drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. |  |
| PHYSICAL OR CHEMICAL HAZARDS                                                                                                                                                                                                                                                                                                                                                                              |  |
| Highly Flammable Ingredient  Ingrediente Altamente Inflamable                                                                                                                                                                                                                                                          |  |
| <b>Flammable.</b> Contents under pressure. Do not store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause a fire or explosion if not used properly. Follow the Directions for Use on this label very carefully.                                                |  |

PEEL AWAY TO SEE COMPLETE DIRECTIONS FOR USE AND PRECAUTIONARY STATEMENTS

Abierto para ver las instrucciones de uso y las declaraciones de precaución ➡

OUTSIDE COVER OF LEAFLET (VISIBLE)

**SureKill® Advanced Insecticide Products**  
**Total Release Aerosol**

EPA Reg. No. 1021-1635-47000  
EPA Est. No. 47000-IA-01

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

This product will kill Ants, Cockroaches, Confused Flour Beetles, Crickets, Fleas, House Flies, Mosquitoes, Rice Weevils, Saw-Toothed Grain Beetles, Small Flying Moths, Sowbugs, Spiders, and Ticks.

Authorized for use in Federally Inspected Meat, Milk, and Poultry Plants.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL BEFORE EACH USE.**

**GENERAL PRECAUTIONS AND RESTRICTIONS:**

Does not control bed bugs.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

For use only when building has been vacated by human beings and pets. Remove pets, birds, and cover fish aquariums before spraying. Do not use in greenhouses where plants are grown for food. Do not use in aircraft cabins. Do not allow adults, children, or pets to enter the treated area until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated. Remove poultry before treating poultry houses. When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

Avoid contamination of food or feedstuffs. Do not treat establishments where livestock feed is present.

Wait 2 hours after application, then open windows, vents, and doors for 2 hours. If an odor is still detectable, additional ventilation is required.

Do not apply when food-processing facility is in operation or foods are exposed. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries, meat packing plants, food processing plants, etc., all benches, shelving, equipment, etc., where exposed food will be handled, must be washed with an effective cleaning compound followed by a potable water rinse to remove all traces of contamination.

Food areas include areas for receiving, storage, packaging (canning, bottling, wrapping, and boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, and syrups). Serving areas are places where prepared foods are served such as dining rooms, but not excluding areas where foods may be prepared or held. Non-food areas include entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling). In homes, do not apply when food is present. Exposed food should be covered or removed. All food preparation surfaces and utensils should be covered during treatment or thoroughly washed before reuse.

**TO USE THIS PRODUCT CORRECTLY:** DO NOT use more than one fogger per room. DO NOT use in small, enclosed spaces such as closets, cabinets, or under counters or tables. *Use of a fogger in an enclosed space may cause the product to explode, resulting in injury to people or damage to property.* Do not use in a room 5 ft. x 5 ft. with an 8 ft. ceiling or smaller; instead, allow fog to enter from other rooms. **Turn off ALL ignition sources such as pilot lights (shut off gas valves), other open flames, or running electrical appliances that cycle off and on (i.e., refrigerators, thermostats, etc.).** Call your gas utility or management company if you need assistance with your pilot lights.

Use only one canister of fogger to treat a room up to 27 ft. x 27 ft. with an 8 ft. ceiling or 6,000 cubic feet of unobstructed space.

1

(DIRECTIONS FOR USE, *continued*)

**BEFORE YOU FOG:**

Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use.

Close outside doors and windows. Shut off fans, air conditioners, and ventilation equipment. Put out all flames, pilot lights, and other ignition sources. Call your gas utility or management company if you need assistance.

Remove pets and birds, cover and turn off fish aquariums before activating fogger. Place a chair, small table, or stand in the center of the room to be treated and cover with newspaper.

Cover wood floors and wood furniture in the immediate area around fogger with newspapers or a drop cloth. Open cabinets, cupboards, drawers, closets, and doors in areas to be treated.

Fill out and place hang tag on the door to the treated area to alert family and others with access to the treated area not to enter for 2 hours.

SHAKE WELL BEFORE USE. KEEP CONTAINER UPRIGHT.

**TO START FOGGING:** Point fogger away from face and eyes when releasing (container sprays straight up). To lock valve in open position for automatic discharge, press valve button down firmly, until it snaps into place. Break off and remove tab on side of sprayer. Tilt sprayer away from face (container sprays straight up). Then place the fogger on the stand or table in the center of the room.

**Vacate the treated house, individual apartment unit, or other structure immediately.** Do not remain in the area during treatment. Keep treated area closed for 2 hours.

Do not re-enter for 2 hours.

**AIRING OUT:** Wait 2 hours after application, then open windows, vents, and doors for 2 hours. If an odor is still detectable, additional ventilation is required. To kill Ticks and Fleas: Destroy pet's old bedding and replace with clean, fresh bedding after treatment is completed. Use product as above. Pets should be treated with a registered flea and tick control product prior to re-entering treated premises. Also, treat your yard with a product registered for yard application.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage**

Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

**Pesticide Disposal and Container Handling**

Do Not Puncture or Incinerate! Non-refillable container. Do not reuse or refill this container.

If empty:

Place in trash or offer for recycling if available.

If partly filled:

Call your local solid waste agency for disposal instructions.

For non-emergency (e.g., current product information), call: **1-800-621-8829**.

**SureKill® Advanced Insecticide Products**  
**Total Release Aerosol**

**INGREDIENTES ACTIVOS:**

Firetrinas.....0.05%  
\*Butoxido de piperonilo.....0.10%  
\*N-Octil biciclohepteno dicarboximida.....0.16%  
(S)-ciano(3-fenoxifenil)metil-(S)-4-cloro-alfa-(1-metiletil)benzoacetato.....0.10%  
OTROS INGREDIENTES:.....99.59%  
TOTAL.....100.00%  
\*(butilcarbutil) (6-propilpiperonil) éter y otros compuestos relacionados  
\*\*MGK® 264, Sinergista de insecticidas

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| PRIMEROS AUXILIOS                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Si cae en la piel o ropa:                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>Quite la ropa contaminada.</li><li>Enjuague la piel inmediatamente con agua durante 15 a 20 minutos.</li><li>Llame a un centro de control de envenenamientos o a un médico para obtener consejos sobre el tratamiento.</li></ul>                                                                                                   |
| Si cae en los ojos:                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"><li>Mantenga los ojos abiertos y enjuague lenta y suavemente con agua durante 15-20 minutos.</li><li>Quite los lentes de contacto, si tiene, después de los primeros 5 minutos. Luego continúe enjuagando.</li><li>Llame a un centro de control de envenenamientos o a un médico para obtener consejos sobre el tratamiento.</li></ul> |
| Si es ingerido:                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>Llame inmediatamente a un centro de control de envenenamientos o a un médico.</li><li>No induzca el vómito a menos que así le sea indicado por el centro de control de envenenamientos o un médico.</li><li>No le dé ningún líquido a la persona.</li><li>No administre nada por boca a una persona inconsciente.</li></ul>        |
| Si es inhalado:                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>Mueva la persona al aire libre.</li><li>Si la persona no está respirando, llame al 911 o a una ambulancia. Luego, suministre respiración artificial, preferiblemente boca a boca, si es posible.</li><li>Llame a un centro de control de envenenamientos o a un médico para más consejos sobre el tratamiento.</li></ul>           |
| Tenga a mano el envase o etiqueta del producto cuando llame al centro de control de envenenamientos o al médico, o cuando vaya a obtener un tratamiento. Para obtener más información sobre emergencias médicas o incidentes con pesticidas, llame al <b>1-888-740-8712</b> . |                                                                                                                                                                                                                                                                                                                                                                          |

| MEDIDAS DE PREVENCIÓN                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| RIESGOS PARA HUMANOS Y ANIMALES DOMÉSTICOS                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| PRECAUCIÓN                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Respirar el vapor puede ser dañino. Es dañino si se inhala o absorbe a través de la piel. Causa irritación ocular moderada. Evite el contacto con la piel, los ojos y la ropa. Evite inhalar los vapores o la niebla. Lave bien con agua y jabón después del manejo y antes de comer, beber, masticar chicle, consumir tabaco o usar el baño.                                                                                                                 |  |
| EQUIPO DE PROTECCIÓN PERSONAL                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Los aplicadores deben usar: camisa de manga larga y pantalones largos; zapatos más calcetines; guantes resistentes a químicos hechos de laminado de barrera, caucho de nitrilo, caucho de neopreno o Viton.                                                                                                                                                                                                                                                   |  |
| REQUISITOS DE SEGURIDAD PARA LOS USUARIOS                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Siga las instrucciones del fabricante para limpiar/mantener EPP. Si no existen tales instrucciones para lavado, use detergente y agua caliente. Mantenga y lave el EPP separado de la otra ropa. Deseche la ropa y otros materiales absorbentes empapados o fuertemente contaminados con este producto. No los reutilice.                                                                                                                                     |  |
| RECOMENDACIONES DE SEGURIDAD PARA LOS USUARIOS                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Los usuarios deben lavarse las manos antes de comer, beber, masticar chicle, consumir tabaco o usar el baño. Los usuarios deben quitarse la ropa/EPP inmediatamente si entran pesticidas. Luego, lávese bien y póngase ropa limpia. Los usuarios deben quitarse el EPP inmediatamente después de manejar este producto. Lave la parte exterior de los guantes antes de quitarlos. Tan pronto como sea posible, lávese completamente y cámbiese a ropa limpia. |  |
| RIESGOS FÍSICOS O QUÍMICOS                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Highly Flammable Ingredient  Ingrediente altamente inflamable                                                                                                                                                                                                                                                                                                            |  |
| <b>Inflamable.</b> Contenido bajo presión. No almacene cerca del calor o llamas abiertas. No perforo ni incinero el contenedor. La exposición a temperaturas superiores a 130°F puede causar estallido. Este producto contiene un ingrediente altamente inflamable. Puede causar un incendio o explosión si no se usa apropiadamente. Siga las instrucciones de uso en esta etiqueta con mucho cuidado.                                                       |  |

3

**SureKill® Advanced Insecticide Products**  
**Total Release Aerosol**

EPA Reg. No. 1021-1635-47000  
EPA Est. No. 47000-IA-01

**MANTENGA LEJOS DE LOS NIÑOS**  
**PRECAUCIÓN**

Este producto matará hormigas, cucarachas, escarabajos de la harina, grillos, pulgas, moscas comunes, mosquitos, gorgojos del arroz, escarabajos de granos con dientes de sierra, polillas voladoras pequeñas, cochinillas, arañas y garrapatas. Autorizado para su uso en plantas de carne, leche y aves inspeccionadas federalmente.

**INSTRUCCIONES DE USO**

Es una violación de la ley federal usar este producto de manera inconsistente con su etiquetado.

**LEA LA ETIQUETA COMPLETA ANTES DE CADA USO.**

**PRECAUCIONES Y RESTRICCIONES GENERALES:**

No controla las chinches.

No aplique este producto de manera que entre en contacto con los trabajadores u otras personas, ya sea directa o indirectamente.

Para uso solo cuando el edificio ha sido desocupado por humanos y mascotas. Retire las mascotas, aves y cubra los acuarios de peces antes de pulverizar. No use en invernaderos donde las plantas se cultivan como alimento. No use en cabinas de aviones. No permita que adultos, niños o mascotas entren al área tratada hasta que los vapores, neblinas y aerosoles se hayan dispersado, y el área tratada haya sido ventilada a fondo. Retire las aves de corral antes de tratar los galpones. Cuando se use en granjas o instalaciones lecheras: cierre las tapas de los tanques de leche para evitar la contaminación con el aerosol o con insectos. Retire o cubra los utensilios de ordeño antes de la aplicación. Lave los pezones de los animales antes de ordeñar.

Evite la contaminación de alimentos o piensos. No trate los establecimientos donde hay alimento para el ganado.

Espere 2 horas después de la aplicación; luego abra las ventanas, respiraderos y las puertas durante 2 horas. Si aún puede detectar un olor, se necesita más ventilación.

No aplique cuando las instalaciones de procesamiento de alimentos estén en funcionamiento o los alimentos estén expuestos. Lave bien todas las superficies de procesamiento de alimentos antes de volver a usarlas. Después de rociar panaderías, plantas emparadoras de carne, plantas de procesamiento de alimentos, etc., se deben lavar todos los bancos, estanterías, equipos, etc., donde se manipularán alimentos expuestos, con un compuesto de limpieza efectivo seguido de un enjuague con agua potable para eliminar los rastros de contaminación.

Las áreas de alimentos incluyen áreas para recepción, almacenamiento, empaçado (enlatado, embotellado, envoltura y empaquetado), preparación, almacenamiento de desechos comestibles y sistemas cerrados de procesamiento (molinos, lecherías, aceites comestibles y jarabes). Las áreas de servicio son lugares donde se sirven comidas preparadas, como comedores, pero sin excluir las áreas donde se pueden preparar o guardar los alimentos. Las áreas no alimentarias incluyen entradas y vestibulos, oficinas, vestidores, cuartos de máquinas, cuartos de calderas, garajes, armarios de trapeadores y almacenes (después del enlatado o embotellado). En los fogones, no aplique cuando haya comida presente. La comida expuesta debe cubrirse o retirarse. Todas las superficies y utensilios para la preparación de alimentos deben cubrirse durante el tratamiento o lavarse bien antes de volver a usarlos.

**PARA USAR ESTE PRODUCTO CORRECTAMENTE:** NO use más de un nebulizador por habitación. NO use en espacios pequeños y cerrados como armarios, gabinetes o debajo de mostradores o mesas. *El uso de un nebulizador en un espacio cerrado puede hacer que el producto explote, lo que puede ocasionar lesiones a personas o daños a la propiedad.* No use en una habitación de 5 pies x 5 pies con un techo de 8 pies o más pequeño; en cambio, permita que la niebla entre desde otras habitaciones. **Tapague TODAS las fuentes de ignición como llamas piloto**

4

# SureKill<sup>®</sup> Advanced Insecticide Products

## Total Release Aerosol

For Use in Homes

### ACTIVE INGREDIENT:

Pyrethrins ..... 0.05%

\*Piperonyl Butoxide..... 0.10%

\*\*N-Octyl Bicycloheptene Dicarboximide... 0.16%

(S)-cyano(3-phenoxyphenyl)methyl-(S)-4-chloro-

Alpha-(10methylethyl)benzenacetate ..... 0.10%

**OTHER INGREDIENTS:**..... 99.59%

**TOTAL** ..... 100.00%

\*(Butylcarbityl)(6-propylpiperonyl) ether and related compounds.

\*\*MGK<sup>®</sup> 264, Insecticide Synergist

EPA Reg. No. 1021-1635-47000

EPA Est. No. 47000-IA-01

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

#### FIRST AID

#### If on Skin or Clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of soap and water for 15-20 minutes.
- Call a poison control center or doctor for further treatment advice.

#### If in Eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eyes.
- Call a poison control center or doctor for further treatment advice.

#### If Swallowed:

- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

#### If Inhaled:

- Move person to fresh air.
- If person is not breathing call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**For 24-hour emergency information on this product, call 1-800-498-5743 (US & Canada) or 1-651-523-0318 (all other areas).**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Breathing spray mist may be harmful. Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating drinking, chewing gum, using tobacco or using the toilet. Users should wear long-sleeved shirt, long pants and shoes plus socks. Remove and wash contaminated clothing before reuse.

Highly Flammable Ingredient

[Insert Flame Symbol]

Ingrediente Altamente Inflamable.

#### PHYSICAL OR CHEMICAL HAZARDS:

**Flammable.** Contents under pressure. Do not store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause fire or explosion if not used properly. Follow the Directions for Use on this label very carefully.

This product will kill Ants, Cockroaches, Confused Flour Beetles, Crickets, Fleas, Houseflies, Mosquitoes, Rice Weevils, Sawtoothed Grain Beetles, Small Flying Moths, Sowbugs, Spiders and Ticks.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**STOP! READ ENTIRE LABEL BEFORE EACH USE.**  
**GENERAL PRECAUTIONS AND RESTRICTIONS"**

#### Does not control bed bugs

Do not apply this product in a manner than will contact adults, children or pets either directly or through drift. For use only when building has been vacated by human beings or pets. Remove pets, birds, and cover fish aquariums before spraying. Do not allow adults, children or pets to enter the treated area, until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

Wait two (2) hours after application, then open windows, vents and doors for two (2) hours. If an odor is still detectable, additional ventilation is required.

**TO USE THIS PRODUCT CORRECTLY:** DO NOT use more than one fogger per room. DO NOT use in small, enclosed spaces such as closets, cabinets or under counters or tables. *Use of a fogger in an enclosed space may cause the product to explode, resulting in injury to people or damage to property.* Do not use in a room 5 ft. x 5 ft. with an 8 ft. ceiling or smaller; instead, allow fog to enter from other rooms. **Turn off ALL ignition sources such as pilot lights (shut off gas valves), other open flames or running electrical appliances that cycle off and on (i.e. refrigerators, thermostats, etc.).** Call your gas utility or management company if you need assistance with your pilot lights.

[Insert EPA Pre-Approved Pictogram: Do not Use Multiple Canisters in a Room]

[Insert EPA Pre-Approved Pictogram: Do Not Use in Small Confined Spaces]

[Insert EPA Pre-Approved Pictogram: Unplug and Turn off ignition sources]

[Insert EPA Pre-Approved Pictogram: NO Flames or Pilot Lights]

Use only one canister of fogger to treat a room up to 27 ft. x 27 ft. with an 8 ft. ceiling or 6,000 cubic ft of unobstructed space

#### **BEFORE YOUR FOG:**

In the home, exposed food should be covered or removed. All food preparation surfaces and utensils should be covered during treatment or thoroughly washed before use.

[Insert EPA Pre-Approved Pictogram: Remove or Cover Exposed Food]

Close outside doors and windows. Shut off fans, air conditioners, and ventilation equipment. Put out all flames, pilot lights and other ignition sources. Call your gas utility or management company if you need assistance.

Remove pets and birds, cover and turn off fish aquariums before activating the fogger.

Place a chair, small table or stand in the center of the room to be treated and cover with newspaper.

Cover wood floors and wood furniture in the immediate area around fogger with newspapers or a drop cloth. Open cabinets, cupboards, drawers, closets and doors in the areas to be treated.

Fill our and place hang-tag on the door to the treated area to alert family and others with access to the treated area not to enter for 2 hours.

**SHAKE WELL BEFORE USE. KEEP CONTAINER UPRIGHT.**

**TO START FOGGING:** Point fogger away from face and eyes when releasing (container sprays straight up). To lock the valve in open position for automatic discharge, press valve button down firmly, until it snaps into place. Break off and remove tab on side of the sprayer. Tilt sprayer away from face (container sprays straight up). Then place fogger on the stand or table in the center of the room.

**Vacate the treated house, individual apartment unit or other structure immediately.** Do not remain in the area during treatment. Keep treated area closed for two (2) hours.

#### **Do not Re-enter for 2 hours**

[Insert EPA Pre-Approved Pictogram: Clock Symbol showing 2 hours]

**AIRING OUT:** Wait two (2) hours after application, then open windows, vents and doors for two (2) hours. If an odor is still detectable, additional ventilation is required.

[Insert EPA Pre-Approved Pictogram: Air out Room Before Entering]

**To Kill Ticks and Fleas:** Destroy pet's old bedding and replace with clean, fresh bedding after treatment is completed. Use product as above. Pets should be treated with a registered flea and tick control product prior to reentering treated premises. Also, treat your yard with a product registered for yard application.

#### **STORAGE AND DISPOSAL**

Do not contaminate feed, food or water by storage or disposal.

##### **Pesticide Storage:**

Store in a cool dry area. Always store pesticides in the original container. Store away from food and pet food.

##### **Pesticide Disposal and Container Handling:**

Do Not Puncture or Incinerate!

Nonrefillable container. Do not reuse or refill this container.

If empty:

Place in trash or offer for recycling if available.

If partly filled:

Call your local solid waste agency for disposal instructions.

For non-emergency (e.g. current product information)  
call: **1-800-621-8829**

**Manufactured For:**  
**Chem-Tech, Ltd.**  
**1006 North Highway 5**  
**Pleasantville, IA 50225**



**\*DOOR HANGER LANGUAGE\***

**Door Hang Tag**

**SureKill**

**Advanced Insecticide Products Total Release Aerosol**

**EPA Reg. No. 1021-1635-47000**

**Date:** \_\_\_\_\_

**Time:** \_\_\_\_\_

**DO NOT ENTER UNTIL:** \_\_\_\_\_

**SureKill® is a Registered Trademark of Neogen Corporation.**

**Optional Marketing Statements:** Water-based Formula

One (6 ounce) Canister of  
Fogger (Each Can) treats a  
room up to 27 ft. x 27 ft.  
with an 8 ft. ceiling or  
6,000 cubic feet or  
unobstructed space.

Code (NG.RG.) NG.RA.

Item No.: 111511  
Net Contents: 6 ounce  
UPC: 0 45446 00126 (5)  
Format: UPC-A  
Label:

Item No.: 111511  
Net Contents: 12 x 6 ounce  
UPC: 600 45446 12126 (3)  
Format: Interleaved 2-of-5  
Label: Case

# Talstar®

## PROFESSIONAL

### INSECTICIDE

To control pests indoors and outdoors on residential, institutional, public, commercial, and industrial buildings, greenhouses, animal confinement facilities/livestock premises, kennels, food handling establishments, and lawns, ornamentals, parks, recreational areas and athletic fields.

When used as a termiticide, individuals/firms must be licensed by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your state prior to use of this product.

Provides up to 1 month residual control of house flies  
Kills fleas for up to 3 months

|                          |                   |
|--------------------------|-------------------|
| EPA Reg. No. 279-3206    | EPA Est. 279-NY-1 |
| Active Ingredient:       | By Wt.            |
| Bifenthrin* .....        | 7.9%              |
| Other Ingredients: ..... | 92.1%             |
|                          | 100.0%            |

Talstar® P Professional Insecticide contains  $\frac{2}{3}$  pound active ingredient per gallon.

\*Cis isomers 97% minimum, trans isomers 3% maximum.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

# FMC

FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104

**Net Contents: 1 Gallon**

| FIRST AID                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If swallowed</b>                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If inhaled</b>                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>                                                  |
| <b>If on skin or clothing</b>                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                                                        |
| <b>If in eyes</b>                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                      |
| HOTLINE NUMBER                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                              |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-(800)-331-3148 for Emergency Assistance.                                                           |                                                                                                                                                                                                                                                                                                                                                              |
| NOTE TO PHYSICIAN                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                              |
| This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. |                                                                                                                                                                                                                                                                                                                                                              |
| For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                              |

## PRECAUTIONARY STATEMENTS

### Hazards to Humans (and Domestic Animals)

#### CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as an in-line injector system), shirt, pants, socks, shoes and water-proof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device<sup>1</sup> when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space.

<sup>1</sup>Use one of the following NIOSH approved respirator with any R, P or HE filter or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help to avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if bees are foraging the treatment area.

## Physical and Chemical Hazards

Do not apply water-based dilutions of Talstar® P Professional Insecticide to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

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## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply a broadcast application to interior surfaces of homes.

Do not apply by air.

Do not apply in plant nurseries.

Do not apply this product through any kind of irrigation system.

Not for use on sod farm turf, golf course turf, or grass grown for seed.

Do not water treated area to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

### Additional Application Restrictions for Residential Outdoor Surface and Space Sprays:

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:

1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters or surface waters, in order to control occasional invaders or aggregating pests.

### AGRICULTURE USE REQUIREMENTS\*

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as, plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.
- Shoes plus socks

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

### For California

#### Greenhouse Applicators must wear:

- Full body chemical-resistant protective suit (such as barrier laminate, butyl rubber, nitrile rubber, polyvinyl chloride, or equivalent).

**Reapplication Interval:** Reapplications to greenhouses must be at intervals of 30 days or longer.

#### Greenhouse Harvesters must wear:

- Regular length gloves plus a long sleeved shirt or elbow-length (gauntlet type) gloves during the 30 days following application.

\*These requirements apply only to the greenhouse uses on this label

### NON-AGRICULTURAL USE REQUIREMENTS\*\*

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

Do not allow people or pets on treated surfaces until the spray has dried.

\*\*These requirements apply to all other non-greenhouse uses on this label

## Use Directions for Container

1. Remove the measuring chamber cap and induction seal. Replace the cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring: Remove fill chamber cap and dispense according to markings on side of bottle.

## STORAGE AND DISPOSAL

**Prohibitions:** Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800) 424-9300.**

**To Confine Spill:** If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Container Disposal:

**Container Handling: Non-refillable container.** Do not reuse or refill this container. Triple rinse as follows: (For containers less than 5 gallons) Empty the contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(For containers greater than 5 gallons) Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Returnable/Refillable Sealed Container:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

## Product Information

Talstar® P Professional Insecticide controls a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses, interiorscapes including hotels, shopping malls, office buildings, etc., and outdoor plantscapes, such as around residential dwellings, parks, institutional buildings, recreational areas, athletic fields and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application. Talstar® P Professional Insecticide may also be used in feed and food handling establishments, animal confinement facilities, kennels, confined animal feeding operations, livestock premises, and in/around/under structures.

**Resistance:** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

## Talstar® P Professional Insecticide Dilution Chart

|                 |                   |                       | Fluid Ounces of Talstar P Professional Diluted to these Volumes of Finished Spray |           |            |             |
|-----------------|-------------------|-----------------------|-----------------------------------------------------------------------------------|-----------|------------|-------------|
| Applic. Volume: |                   | Applic. Rate:         | 1 Gallon                                                                          | 5 Gallons | 10 Gallons | 100 Gallons |
| % a.i.          | Gal/ 1000 sq. ft. | Fl. oz./ 1000 sq. ft. | fl. oz.                                                                           | fl. oz.   | fl. oz.    | fl. oz.     |
| 0.008           | 1.0               | 0.125                 | 0.125                                                                             | 0.63      | 1.25       | 12.5        |
| 0.011           | 1.0               | 0.18                  | 0.18                                                                              | 0.90      | 1.8        | 18.0        |
| 0.015           | 1.0               | 0.25                  | 0.25                                                                              | 1.25      | 2.5        | 25.0        |
| 0.020           | 1.0               | 0.33                  | 0.33                                                                              | 1.67      | 3.33       | 33.3        |
| 0.031           | 1.0               | 0.5                   | 0.5                                                                               | 2.5       | 5.0        | 50.0        |
| 0.041           | 1.0               | 0.67                  | 0.67                                                                              | 3.33      | 6.67       | 66.7        |
| 0.046           | 1.0               | 0.75                  | 0.75                                                                              | 3.75      | 7.5        | 75.0        |
| 0.062           | 1.0               | 1.0                   | 1.0                                                                               | 5.0       | 10.0       | 100.0       |
| 0.004           | 2.0               | 0.125                 | -                                                                                 | 0.31      | 0.63       | 6.3         |
| 0.006           | 2.0               | 0.18                  | -                                                                                 | 0.45      | 0.90       | 9.0         |
| 0.008           | 2.0               | 0.25                  | 0.13                                                                              | 0.63      | 1.25       | 12.5        |
| 0.010           | 2.0               | 0.33                  | 0.17                                                                              | 0.83      | 1.65       | 16.5        |
| 0.015           | 2.0               | 0.5                   | 0.25                                                                              | 1.25      | 2.5        | 25.0        |
| 0.021           | 2.0               | 0.67                  | 0.33                                                                              | 1.67      | 3.35       | 33.5        |
| 0.023           | 2.0               | 0.75                  | 0.38                                                                              | 1.88      | 3.75       | 37.5        |
| 0.031           | 2.0               | 1.0                   | 0.5                                                                               | 2.5       | 5.0        | 50.0        |
| 0.003           | 3.0               | 0.125                 | -                                                                                 | 0.21      | 0.42       | 4.2         |
| 0.004           | 3.0               | 0.18                  | -                                                                                 | 0.30      | 0.60       | 6.0         |
| 0.005           | 3.0               | 0.25                  | -                                                                                 | 0.42      | 0.83       | 8.3         |
| 0.007           | 3.0               | 0.33                  | 0.11                                                                              | 0.55      | 1.10       | 11.0        |
| 0.010           | 3.0               | 0.5                   | 0.17                                                                              | 0.83      | 1.67       | 16.7        |
| 0.014           | 3.0               | 0.67                  | 0.22                                                                              | 1.11      | 2.23       | 22.3        |
| 0.015           | 3.0               | 0.75                  | 0.25                                                                              | 1.25      | 2.5        | 25.0        |
| 0.021           | 3.0               | 1.0                   | 0.33                                                                              | 1.67      | 3.33       | 33.3        |
| 0.002           | 4.0               | 0.125                 | -                                                                                 | 0.16      | 0.31       | 3.1         |
| 0.003           | 4.0               | 0.18                  | -                                                                                 | 0.23      | 0.45       | 4.5         |
| 0.004           | 4.0               | 0.25                  | -                                                                                 | 0.31      | 0.63       | 6.3         |
| 0.005           | 4.0               | 0.33                  | -                                                                                 | 0.41      | 0.83       | 8.3         |
| 0.006           | 4.0               | 0.5                   | 0.13                                                                              | 0.63      | 1.25       | 12.5        |
| 0.008           | 4.0               | 0.67                  | 0.17                                                                              | 0.84      | 1.67       | 16.7        |
| 0.010           | 4.0               | 0.75                  | 0.19                                                                              | 0.94      | 1.88       | 18.8        |
| 0.012           | 4.0               | 1.0                   | 0.25                                                                              | 1.25      | 2.5        | 25.0        |
| 0.002           | 5.0               | 0.125                 | -                                                                                 | 0.13      | 0.25       | 2.5         |
| 0.002           | 5.0               | 0.18                  | -                                                                                 | 0.18      | 0.36       | 3.6         |
| 0.003           | 5.0               | 0.25                  | -                                                                                 | 0.25      | 0.5        | 5.0         |
| 0.004           | 5.0               | 0.33                  | -                                                                                 | 0.33      | 0.67       | 6.7         |
| 0.006           | 5.0               | 0.5                   | 0.1                                                                               | 0.5       | 1.0        | 10.0        |
| 0.008           | 5.0               | 0.67                  | 0.13                                                                              | 0.67      | 1.33       | 13.3        |
| 0.009           | 5.0               | 0.75                  | 0.15                                                                              | 0.75      | 1.5        | 15.0        |
| 0.012           | 5.0               | 1.0                   | 0.2                                                                               | 1.0       | 2.0        | 20.0        |
| 0.001           | 10.0              | 0.125                 | -                                                                                 | -         | 0.13       | 1.3         |
| 0.001           | 10.0              | 0.18                  | -                                                                                 | -         | 0.18       | 1.8         |
| 0.002           | 10.0              | 0.25                  | -                                                                                 | 0.13      | 0.25       | 2.5         |
| 0.002           | 10.0              | 0.33                  | -                                                                                 | 0.17      | 0.33       | 3.3         |
| 0.003           | 10.0              | 0.5                   | -                                                                                 | 0.25      | 0.5        | 5.0         |
| 0.004           | 10.0              | 0.67                  | -                                                                                 | 0.33      | 0.67       | 6.7         |
| 0.005           | 10.0              | 0.75                  | -                                                                                 | 0.38      | 0.75       | 7.5         |
| 0.006           | 10.0              | 1.0                   | 0.1                                                                               | 0.5       | 1.0        | 10.0        |

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Talstar® P Professional Insecticide.

**Note:** Higher finished volume should be applied to penetrate thatch, mulch, brush, and porous surfaces. Lower finished volumes can be used indoors and for non-porous surfaces. Do not apply more than 1 oz. Talstar Professional per 1,000 square feet.

## Application Instructions

Talstar® P Professional Insecticide formulation mixes readily with water and other aqueous carriers.

Talstar® P Professional Insecticide may be tank-mixed with adjuvants, and with other pesticides, including insect growth regulators. When tank mixing Talstar® P Professional Insecticide with other pesticides, observe all precautions and limitations on each separate product label. The physical compatibility of Talstar® P Professional Insecticide may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

**The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase**



the volume of water. **Note: If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.**

**Formula for Determining the Active Ingredient Content of the Finished Spray Mixture:** The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing Talstar® P Professional Insecticide:

$$\frac{(7.9)(\text{Fl. Oz. of Talstar P Professional added to tank})}{(\text{Gallons of finished spray mix})(128)} = \text{Percent Active Ingredient of spray mix}$$

## APPLICATION DIRECTIONS

### ANT CONTROL

**Nuisance Ants Indoors:** For best results, locate and treat ant nests. Dilute 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a crack and crevice or spot treatment to areas where ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. When using Talstar® P Professional Insecticide in combination with baits, apply Talstar® P Professional Insecticide as instructed above, and use baits in other areas that have not been treated with Talstar® P Professional Insecticide

**Nuisance Ants Outdoors:** For best results, locate and treat ant nests. Apply Talstar® P Professional Insecticide to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the "Pest Control on Outside Surfaces and Around Buildings" section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. Maximum control is generally achieved using the following procedure:

The following procedure must be followed to help achieve maximum control of the pest:

- 1) Treat non-porous surfaces only in areas protected from rainfall and spray from sprinklers with low volume applications using 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
- 2) Treat porous surfaces and vegetation with high volume applications (usually 5 to 10 finished gallons per 1,000 square feet) using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet (refer to the Talstar® P Professional Insecticide Dilution Chart).
- 3) For maximum residual control, dilute 1.0 fluid oz of Talstar P Professional Insecticide per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

**Carpenter Ants Indoors:** Dilute 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a crack and crevice or spot treatment to areas where carpenter ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks, and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. Spray or foam into cracks and crevices or drill holes and spray, mist or foam into voids where carpenter ants or their nests are present. When using Talstar® P Professional Insecticide in combination with baits, apply Talstar® P Professional Insecticide as instructed above, and use baits in other areas that have not been treated with Talstar® P Professional Insecticide.

**Carpenter Ants Outdoors:** Apply Talstar® P Professional Insecticide to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the "Pest Control on Outside Surfaces and Around Buildings" section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for carpenter ant control. Maximum control is generally achieved using the following procedure:

The following procedure must be followed to help achieve maximum control of the pest:

- 1) Treat non-porous surfaces only in areas protected from rainfall and spray from sprinklers with low volume applications using 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet
- 2) Treat the trunks of trees that have carpenter ant trails, or upon which carpenter ants are foraging, using 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply-

ing this dilution to thoroughly wet the bark from the base of the tree to as high as possible on the trunk

- 3) Treat porous surfaces and vegetation with high volume applications (usually 5 to 10 finished gallons per 1,000 square feet) using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet (refer to the Talstar® P Professional Insecticide Dilution Chart)
- 4) For maximum residual control, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply at a rate of up to 10 gallons of dilution per 1000 square feet.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to locate the interior infested cavity and inject or foam a 0.06% dilution (1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water) into the cavity using a sufficient volume and an appropriate treatment tool with a splashback guard.

To control carpenter ants that are tunneling in the soil, dilute 0.5 to 1.0 fluid ounces of Talstar® P Professional Insecticide per gallon of water and apply as a drench or inject the dilution or foam at intervals of 8 to 12 inches. Establish a uniform vertical barrier at the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

To protect firewood from carpenter ants (and termites), dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply to the soil beneath where the firewood will be stacked at the rate of one gallon of dilution per 8 square feet

For wood piles and stored lumber apply a 0.06% dilution. Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned as firewood or used for lumber one month after treatment. Do not use in structures.

**For Ant and Fire Ant Mounds** control is optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Apply broadcast treatments at 0.6 to 1 fluid oz. per 1,000 square feet. Use enough finished volume to penetrate thatch or sod. Treat mounds by applying 1 fl oz Talstar P Professional per mound in 1 to 2 gallons water by sprinkling the mound until it is wet and treat 3 feet out around the mound. Use the higher volume for mounds larger than 12". Treat mounds with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours.

### Pest Control on Outside Surfaces and Around Buildings

Talstar® P Professional Insecticide will provide up to 1 month residual control of house flies. Length of residual control is dependant upon rate and surface treated.

Follow Additional Application Restrictions for Outdoor Surface and Space Sprays under DIRECTIONS FOR USE

Applications to vertical exterior surfaces (e.g., foundations) are permitted to a maximum height of 3 feet from ground level. Sections of vertical exterior surfaces that abut non-porous horizontal surfaces can only be treated if either 1) these sections are protected from rainfall and spray from sprinklers or 2) they do not drain into a sewer, storm drain, or curb-side gutter (e.g., not to sections that abut driveways or sidewalks that drain into streets).

For control of Ants, Carpenter Ants, Fire Ants, Armyworms, Lady Beetle, Bees, Beetles\*, Biting Flies, Boxelder Bugs, Centipedes, Chiggers, Chinch Bugs, Cicadas, Clover Mites, Cockroaches, Crickets, Cutworms, , Dichondra Flea Beetles, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Gnats, Grasshoppers, Hornets, Japanese Beetles\*, Midgees, Millipedes, Mosquitoes, Moths, Scorpions, Silverfish, Sod Webworms, Sowbugs (Pillbugs), Spider Mites, Spiders (including Black Widow, Brown Recluse and Hobo Spiders), Springtails, Stink Bugs, Ticks (including Brown Dog Ticks), Vinegar (Fruit) Flies, and Wasps.

\*Not for use in California.

Apply Talstar® P Professional Insecticide using a 0.02 to 0.06% dilution as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Do not apply more than 1 oz. Talstar P Professional per 1000 square feet. (Refer to the Talstar P Professional Dilution Chart.). Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

**Mixing Directions:** For 0.02% dilution, mix 0.33 fluid oz. of Talstar® P Professional Insecticide per gallon of water. For 0.06% dilution, mix 1 fluid oz. Talstar® P Professional Insecticide per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Talstar® P Professional Insecticide. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Retreatment may be nec-

essary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

**Perimeter Treatment:** Apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Apply 0.33 to 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet in sufficient water to provide adequate coverage (refer to Talstar® P Professional Insecticide Dilution Chart). For sections of foundation that about non-porous horizontal surfaces, the treated areas must be protected from rainfall and spray from sprinklers or they do not drain into a sewer, storm drain, or curbside gutter (e.g. not to sections that abut driveways or sidewalks that drain into streets).

#### **Broadcast Treatment of Wood for the Control of Wood-infesting Insects and Nuisance Pests Outside of Structure**

Apply a 0.06% dilution with a fan spray using a maximum pressure of 25 psi. Treatment should be made to thoroughly and uniformly cover the surface but limit excess runoff.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.06% dilution. To control Bees, Wasps, Hornets, and Yellow-Jackets, apply in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

#### **Pests Under Slabs**

Infestations of Arthropods, such as Ants, Cockroaches and Scorpions inhabiting under slab area may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of a 0.06% or 1/2 gallon of a 0.12% dilution per 10 square feet (or 2 gallons of a 0.06% dilution or 1 gallon of a 0.12% dilution per 10 linear feet).

### **MOSQUITO CONTROL**

To control adult mosquitoes outdoors on residential, institutional, public, commercial and industrial buildings, and lawns, ornamentals, parks, recreational areas and athletic fields.

Apply Talstar® P Professional Insecticide for mosquito control at an application rate of 0.33 to 1.0 fluid oz. Talstar® P Professional Insecticide per gallon of water (0.07 to 0.22 lbs bifenthrin/acre), and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray (refer to the Talstar® P Professional Insecticide Dilution Chart). Use the high rate for residual control of mosquitoes. Use this product for control of mosquitoes that may potentially transmit malaria and arboviruses (West Nile fever, dengue fever, Eastern equine encephalitis, and St. Louis encephalitis).

Apply as a residual spray to outside surfaces of buildings including but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent to or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, fence lines, storage sheds, barns, and other commercial, residential and non commercial structures, soil, trunk of woody ornamentals, trees, shrubs, ground cover, bedding plants, foliage plants, flowers, non-bearing fruit and nut trees, urban areas, parks, campsites, athletic fields, playgrounds, recreational and overgrown waste areas, roadsides and other areas where mosquitoes are found. May also be applied to non-bearing crops or perennial crops that will not produce harvestable raw agricultural commodities during the season of application.

Use the high rate for heavy pest infestation, quicker knockdown, or longer residual control. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure, or if there are signs of renewed insect activity. For the lower use rates, repeat application should be limited to no more than once per seven days. For the high use rate of 1.0 fluid oz. Talstar® P Professional Insecticide per gallon of water, do not apply more than once per four weeks.

Apply with hand-held and back pack sprayers or mist blowers, ground sprayers, power sprayers, truck mounted hydraulic sprayers or mist blowers. Do not apply by air or with hand held or truck mounted cold aerosol ULV sprayers and thermal fogging devices. For best results apply when mosquitoes are most active. Application during the cooler hours of the night or early mornings is recommended.

Do not apply more than 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet (equivalent to 0.22 lbs. bifenthrin/acre) per application

Do not apply when wind speed exceeds 10 MPH.

### **INDOOR USE**

For control of Ants, Carpenter Ants, Bedbugs, Bees, Beetles, Biting Flies, Boxelder Bugs, Centipedes, Cicadas, Cockroaches, Crickets, Earwigs, Firebrats, Fleas, Flies, Gnats, Millipedes, Mosquitoes, Moths, Scorpions, Silverfish, Sowbugs (Pillbugs), Spider Mites, Spiders (including Black Widow, Brown Recluse and Hobo Spiders), Springtails, Stink Bugs, Ticks (including Brown Dog Ticks), Vinegar (Fruit) Flies, and Wasps.

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Use a 0.02% to 0.06% dilution (0.33 to 1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, coarse, low pressure spray (25 psi or less) or with a paint brush.

Apply as a coarse, low pressure, crack and crevice or spot spray to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas. Do not use as a space spray. Pay particular attention to cracks and crevices.

**Mixing Directions:** See mixing directions in "Pest Control on Outside Surfaces and Around Buildings" section.

Talstar® P Professional Insecticide is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add Talstar® P Professional Insecticide. Close and shake before use in order to ensure proper mixing. Mix only the amount of solution needed for the application. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Limit repeat application to no more than once per seven days.

Talstar® P Professional Insecticide may be converted to a foam and used to treat void spaces, or as a spot spray on vertical or horizontal surfaces where visual marking of application is desired. Use of a foaming agent increases a.i. surface contact time on challenging surfaces and provides visual marking of the application.

**Bedbugs:** Thorough application should be made to crack and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty dressers and clothes closets and carpet edges, high and low wall moldings and wallpaper edges. Do not use this product on bed linens, pillows, mattresses or clothes. Remove all clothes and other articles from dressers or clothes closets before application. Allow all treated areas to thoroughly dry before use. Not recommended for use as sole protection against bedbugs. If evidence of bedbugs is found in/on mattresses, use products approved for this use.

Use a 0.06% dilution (1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, coarse, low pressure spray (25 psi or less) or with a paint brush.

#### **Cockroaches, Crickets, Firebrats, Flies, Gnats, Moths, Mosquitoes, Scorpions, Silverfish, Spiders, Ticks**

Talstar® P Professional Insecticide will provide up to 1 month residual control of house flies. Length of residual control is dependant upon rate and surface treated.

Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

**Ants:** Apply to any trails, around doors and windows and other places where ants may be found.

#### **Fleas:**

Talstar® P Professional Insecticide will kill fleas for up to 3 months

Apply as a coarse, low pressure spot or crack and crevice treatment to areas frequented by pets, such as under bedding, rugs, next to furniture. Do not apply Talstar® P Professional Insecticide dilution directly to pets. Treatment must be dry before pet re-entry. Vacuum prior to treatment.

**Boxelder Bugs, Centipedes, Cicadas, Earwigs, Beetles, Millipedes, Pillbugs, Sowbugs, Springtails, and Stink Bugs:** Apply around doors and windows and other places where these pests may be found or where they may enter premises. Check damp areas and drains for pest access. Spray baseboards, storage areas and other locations.

**Spider Mites:** Treat houseplants thoroughly but do not allow run off to occur. Make sure to treat underside of leaves.

#### **Bees and Wasps**

To control Bees, Wasp, Hornets, and Yellow-Jackets apply a 0.06% dilution. Application should be made in the late evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity.

**Precautions:** Do not apply dilution until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these structural elements. During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.



### Restrictions:

Do not apply into electrical fixtures, switches, or sockets.

In the home, all food processing surfaces and utensils in the treatment area should be covered during treatment or thoroughly washed before re-use. Remove pets, birds, and cover aquariums before spraying. Do not permit humans or pets to contact treated surfaces until the spray has dried.

Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

### FOR CONTROL OF STORED PRODUCTS PESTS

Including Indian Meal Moths, Rice Moths, Tobacco Moths, Flour Beetles, Lesser Grain Borers, Merchant Grain Beetles, Sawtoothed Grain Beetles, Grain Weevils, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetles, Psocids, and other similar pests. Inspect to locate and remove infested food sources, remove or cover any food items or food serving dishes or utensils prior to treatment. Apply Talstar P Professional using a 0.02 to 0.06% dilution, Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices. Do not apply directly to food.

**WAREHOUSES and GROCERY/PET STORES:** Talstar® P Professional Insecticide dilution may be applied as a surface, spot or crack and crevice treatment in food and storage warehouses and stores. Apply to all areas that may harbor pests, including under and between pallets, bins, and shelves. Do not apply directly to food, grain bins (interior), or animals.

### FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS

Applications of this product are permitted in both food/feed and non-food areas of food/feed handling establishments as a surface, spot, or crack and crevice treatment.

Talstar P Professional Insecticide will provide up to 1 month residual control of house flies. Length of residual control is dependant upon rate and surface treated.

Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Permitted non-food areas of use include, garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling).

Permitted use sites include, but are not limited to: Aircraft (Do not use in aircraft cabins), bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, hospitals, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes offices, railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses and wineries.

**Surface Application:** Do not use this application method in food/feed handling establishments when the facility is in operation or foods/feeds are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

**Spot, Crack and Crevice Application:** Spot or crack and crevice applications may be made while the facility is in operation; however, food should be covered or removed from area being treated. Do not apply directly to food. For this application a "spot" will not exceed 2 ft²

### ANIMAL CONFINEMENT FACILITIES, LIVESTOCK PREMISES, CONFINED ANIMAL FEEDING OPERATIONS, and KENNELS

Controls biting flies, filth-breeding flies, fleas, litter beetles, hide beetles, bed bugs, mites, and ticks. Apply as a surface (including directed spray) and/or crack and crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock, poultry, or pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of Talstar P Professional Insecticide to effectively control crawling and flying insect pests.

For occupied areas of poultry/livestock facilities and kennels, apply to indoor cracks and crevices only. Exterior applications to walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests. Apply Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. feet.

For unoccupied areas of poultry/livestock facilities and kennels, apply to floors, vertical and overhead surfaces where crawling or flying insect pests may be present. Feeders, waterers, and feed carts should be covered before application to prevent contamination. Do not apply to milk rooms. Pay attention to animal areas including stanchions, pipes, windows, doors, and areas where insect pests hide or congregate. Exterior applications to walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests. Apply Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. feet. Use sufficient finished volume to penetrate leaf litter, thatch, mulch, or porous surfaces.

To control bed bugs, mites and ticks in animal facilities, treat cracks/crevices, walls, posts, nest boxes, and mobile side curtains. Do not apply Talstar P Professional Insecticide directly to animals. To control bedbugs, use 0.5 to 1 fl. oz per 1000 sq. ft. Use the higher rate of application on painted and non-porous surfaces.

For adult fly control in and around animal facilities, spray application should target areas where flies will rest, such as the ceiling, rafters, and trusses. Also treat windows, interior and exterior walls and supports, fences, and vegetation. Talstar P Professional Insecticide dilution may be sprayed on manure in areas where fly larvae are abundant and the area cannot be cleaned.

For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure, but not more frequently than every 8 weeks. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 2 to 3 feet up and 6 to 10 feet out from the structure. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

To control beetles in houses containing birds grown on litter, apply Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. feet to litter after birds are removed and during tilling. If litter is removed and replaced with fresh litter, apply Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. feet to bare soil or concrete, and treat new litter after it is spread. Apply spray to inside walls, posts, and exterior perimeter. Reapply between each flock.

To control beetles in broiler-breeder houses, apply as directed above for litter and soil/floor treatment.

To control beetles in caged-layer houses, do not treat accumulated manure, as it will likely disrupt natural enemies that control fly breeding. Instead, treat the perimeter of the manure at a rate equivalent to 0.33 to 1 fl. oz Talstar P Professional Insecticide per 1000 sq. feet. Pit walls, posts, and exterior of structure should also be sprayed. Reapply between each flock.

Allow Talstar P Professional Insecticide treatment to dry before applying disinfectants.

**DO NOT** apply Talstar P Professional Insecticide as a surface spray when animals are present in the facility. Allow applications to dry before restocking the facility. Treatment may be made to cracks and crevices when animals are present.

**DO NOT** apply Talstar P Professional Insecticide to any animal feed, water, or watering equipment.

**DO NOT** contaminate any animal feed, food, or water in and around livestock, poultry, or pet housing when making applications.

### Foam Applications

Talstar® P Professional Insecticide may be converted to a foam and used to treat void spaces, or as a spot spray on vertical or horizontal surfaces where visual marking of application is desired. Use of a foaming agent increases a.i. surface contact time on challenging surfaces and provides visual marking of the application. Ensure that the foaming agent is approved for food surface/area contact use.

### Specific Pest Control Applications

**Underground Services** such as: wires, cables, utility lines, pipes, conduits, etc. Services may be within structures or located outside structures, in right-of-ways or to protect long range (miles) of installations of services.

Soil treatment may be made using 0.06 to 0.12% Talstar® P Professional Insecticide dilution to prevent attack by Termites and Ants.

Apply 2 gallons of dilution per 10 linear feet to the bottom of the trench and allow to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil will not accept the above labeled volume, 1 gallon of 0.12% Talstar® P Professional Insecticide may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services.

Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of dilution into the soil.

### Restrictions:

Do not treat electrically active underground services.

### Posts, Poles, and Other Constructions

Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.06% dilution.

Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of dilution per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of dilution per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

**Treatment of Wood-in-Place for Control of Wood-Infesting Insects:** (Localized Areas in Structure) For the control of insects such as Termites, Ants, Carpenter Ants, and wood-infesting beetles such as Old House Borer and Powder Post in localized areas of infested wood in and around structures, apply a 0.06% dilution to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on or fan spray applications may also be used. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawl spaces. Application may be made to inaccessible areas by drilling, and then injecting dilution with a crack and crevice injector into the damaged wood or void spaces. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

Termite carton nests in trees or building voids may be injected with 0.06% dilution. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

**Pest Control in Crawlspace and Voids:** Broadcast Talstar® P Professional Insecticide at 0.02% to 0.06% to all surfaces in crawl-space and/or void to control ants, fleas, roaches, scorpions, or other arthropods. This treatment is not intended as a substitute for termite control. Treatment should be made to thoroughly and uniformly cover the surface but limit excess runoff. Keep children and pets off surface until dry.

## SUBTERRANEAN TERMITE CONTROL

### Directions For Use

All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as an in-line injector system), shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device<sup>1</sup> when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space or when applying termiticide by rodding or sub-slab injection.

<sup>1</sup>Use one of the following NIOSH approved respirator with any R, P or HE filter or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean-up is completed.

The use of this product prevents and controls termite infestations in and around structures and constructions.

The insecticidal dilution must be adequately dispersed in the soil to establish a barrier between the wood and the termites in the soil. As a good practice: 1) all non-essential wood and cellulose containing materials, should be removed from around foundation walls, crawl spaces, and porches; 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Soil around untreated structural wood in contact with soil should be treated as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current termite control practices such as: trenching, rodding, sub-slab injection, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to prevent or control infestations by subterranean termites such as: *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to control or prevent the termite infestation.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

For advice concerning current control practices with relation to specific local conditions, consult resources in structural pest control and state cooperative extension and regulatory agencies.

**Important:** Contamination of public and private water supplies must be avoided by following these restrictions and procedures: Use anti-back-flow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not contaminate cisterns or wells. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

**Note:** Crawl spaces are considered inside of the structure.

**Critical Areas:** Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bath traps and areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

### Structures with Wells/Cisterns Inside Foundations

Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
  - a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
  - b. Treat the soil at the rate of 4 gallons of dilution per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. See "Mixing Directions" section of the label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
  - c. After the treated soil has absorbed the dilution, replace the soil into the trench.
2. Treat infested and/or damaged wood in place using an injection technique such as described in the "Control of Wood Infesting Insects" section of this label.

### Structures with Adjacent Wells/Cisterns and/or Other Water Bodies

Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.
2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.
3. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.

### Application Rate:

Use a 0.06% dilution for subterranean termites. For other pests on the label use specific listed rates.

**Mixing Directions:** Mix the termiticide use dilution in the following manner: Fill tank 1/4 to 1/3 full. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add appropriate amount of Talstar® P Professional Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

Talstar® P Professional Insecticide may also be mixed into full tanks of water, but requires substantial agitation to ensure uniformity of the dilution.

To prepare a 0.06% water dilution, ready to use, dilute 3 quarts of Talstar® P Professional Insecticide with 99.25 gallons of water.

### Mixing:

For the desired application rate, use the chart below to determine the amount of Talstar® P Professional Insecticide for a given volume of finished dilution:



| Amount of Talstar® P Professional Insecticide<br>(Gallons except where noted) |                                  |                 |                                      |
|-------------------------------------------------------------------------------|----------------------------------|-----------------|--------------------------------------|
| Dilution Concentration                                                        | Amount of Talstar P Professional | Amount of Water | Desired Gallons of Finished Dilution |
| 0.06%                                                                         | 1 fl oz                          | 127 fl oz.      | 1                                    |
|                                                                               | 5 fl oz                          | 4.9             | 5                                    |
|                                                                               | 10 fl oz.                        | 9.9             | 10                                   |
|                                                                               | 25 fl oz.                        | 24.8            | 25                                   |
|                                                                               | 1.5 qt.                          | 49.6            | 50                                   |
|                                                                               | 2.25 qt.                         | 74.4            | 75                                   |
|                                                                               | 3 qt                             | 99.25           | 100                                  |
| 0.12%*                                                                        | 2 fl oz                          | 126 fl oz.      | 1                                    |
|                                                                               | 10 fl oz                         | 4.9             | 5                                    |
|                                                                               | 19.5 fl oz.                      | 9.8             | 10                                   |
|                                                                               | 1.5 qt.                          | 24.6            | 25                                   |
|                                                                               | 3 qt.                            | 49.2            | 50                                   |
|                                                                               | 4.5 qt.                          | 73.8            | 75                                   |
|                                                                               | 6 qt                             | 98.5            | 100                                  |

Common units of measure:

1 pint = 16 fluid ounces (fl oz.)

1 quart = 2 pints = 4 cups = 32 fluid ounces (fl oz.)

\*For termite applications, only use this rate in conjunction with the application volume adjustments as listed in the section below or in the foam or underground service application sections.

**Application Volume:** To provide maximum control and protection against termite infestation apply the specified volume of the finished water dilution and active ingredient as set forth in the directions for use section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same.

Note: Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous barrier can still be achieved.

Where desirable for pre and post construction treatments, the volume of the 0.12% dilution may be reduced by  $\frac{1}{2}$  the labeled volume. See Volume Adjustment Chart below.

**Note:** When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.

| Volume Adjustment Chart                           |             |             |
|---------------------------------------------------|-------------|-------------|
| Rate (% dilution)                                 | 0.06%       | 0.12%       |
| Volume allowed                                    |             |             |
| Horizontal (gallons dilution/10 ft <sup>2</sup> ) | 1.0 gallons | 0.5 gallons |
| Vertical (gallons dilution/10 lin. ft.)           | 4.0 gallons | 2.0 gallons |

**After Treatment:** All holes in commonly occupied areas into which Talstar® P Professional Insecticide has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

### Pre-Construction Subterranean Termite Treatment

The treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas.

The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under FIFRA to ensure that: 1) if the concrete slab cannot be poured over the treated soil within 24 hours of application the treated soil is covered with a waterproof covering (such as polyethylene sheeting), and 2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured.

Do not treat soil that is water-saturated or frozen.

Do not treat when raining.

Do not allow treatment to runoff from the target area.

Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or ponds; estuaries; and commercial fish farm ponds).

Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.

**Pre-Construction Treatment: Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to the installation of the finished grade.**

When treating foundations deeper than 4 feet, apply the termiticide as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and

around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.06% dilution of Talstar® P Professional Insecticide.

#### Horizontal Barriers

Create a horizontal barrier wherever treated soil will be covered by a slab, such as footing trenches, slab floors, carports, and the soil beneath stairs and crawl spaces.

For a 0.06% rate apply 1 gallon of dilution per 10 square feet, or use 1 fluid ounce of Talstar® P Professional Insecticide per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated.

If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

Applications shall be made by a low pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a water-proof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.

#### Vertical Barriers

Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls and other critical areas.

For a 0.06% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 4 fluid ounces of Talstar® P Professional Insecticide 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

- When trenching and rodding into the trench, or trenching, it is important that dilution reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart.
- Care should be taken to avoid soil wash-out around the footing.
- Trenches need not be wider than 6 inches. Dilution should be mixed with the soil as it is being replaced in the trench.
- For a monolithic slab, an inside vertical barrier may not be required.

Treat hollow block voids at a rate of 2 gallons of dilution per 10 linear feet so that the dilution will reach the top of the footing.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.

### Post Construction Subterranean Termite Treatment

Use a 0.06% dilution for post-construction treatment. Post-construction soil applications shall be made by injection, trenching and rodding into the trench or trenching, or coarse fan spray with pressures not exceeding 25 p.s.i. at the nozzle. Care should be taken to avoid soil wash-out around the footing.

Do not apply dilution until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these elements.

**Foundations:** For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

#### Slabs

Vertical barriers may be established by sub-slab injection within the structure and trenching and rodding into the trench or trenching outside at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.

- Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.
- For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The dilution should be applied to the trench and soil at 4 gallons of dilution per 10 linear feet per foot of depth as the soil is replaced in the trench.
- For foundations deeper than 1 foot follow rates for basement.
- Exposed soil and wood in bath traps may be treated with a 0.06% dilution.

#### Basements

Where the footing is greater than 1 foot of depth from grade to the bottom of the foundation, application must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. When the footer is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footer. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.

**Accessible Crawl Spaces:** For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of dilution per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

- Rod holes and trenches must not extend below the bottom of the footing.
- Rod holes must be spaced so as to achieve a continuous termiticide barrier but in no case more than 12 inches apart.
- Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The dilution must be mixed with the soil as it is replaced in the trench.
- When treating plenums or crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

**Inaccessible Crawl Spaces:** For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods.

- To establish a horizontal barrier, apply to the soil surface, 1 gallon of dilution per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.
- To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of dilution per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many States have smaller intervals, so check State regulations which may apply.

When treating plenums and crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

**Masonry Voids:** Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of dilution per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the

clean-up is completed.

**Note:** When treating behind veneer care should be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.

Not for use in voids insulated with rigid foam insulation.

**Excavation Technique:** If treatment must be made in difficult situations, along fieldstone or rubble walls, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:

- Trench and remove soil to be treated onto heavy plastic sheeting or similar material.
- Treat the soil at the rate of 4 gallons of dilution per 10 linear feet per foot of depth of the trench. Mix the dilution thoroughly into the soil taking care to prevent liquid from running off the liner.
- After the treated soil has absorbed the liquid dilution, replace the soil in the trench.

**Attention:** When applying Talstar® P Professional Insecticide in a confined area, the user should wear unvented goggles and a respirator approved by NIOSH during application.

#### Foam Applications

Talstar® P Professional Insecticide dilution, from 0.06 to 0.12 % may be converted to a foam with expansion characteristics from 2 to 40 times.

**Localized Application:** The dilution may be converted to a foam and the foam used to control or prevent termite infestations.

Depending on the circumstances, foam applications may be used alone or in combination with liquid dilution applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to ensure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid dilution volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

#### Application Under Slabs or to Soil in Crawlspaces to Prevent or Control Termites

Application may be made using Talstar® P Professional Insecticide foam alone or in combination with liquid dilution. The equivalent of at least 4 gallons (4 ounces of Talstar® P Professional Insecticide concentrate) of 0.06% dilution per 10 linear feet (vertical barrier), or at least 1 gallon (1 ounce of Talstar® P Professional Insecticide concentrate) of 0.06% dilution per 10 square feet (horizontal barrier) must be applied either as dilution, foam, or a combination of both. For a foam only application, apply Talstar® P Professional Insecticide concentrate in sufficient foam concentration and foam volume to deposit 4 ounces of concentrate per 10 linear feet or 1 ounce of concentrate per 10 square feet. For example, 2 gallons of 0.12% dilution generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.06% dilution per 10 linear feet.

#### Sand Barrier Installation and Treatment

Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move Talstar® P Professional Insecticide treated soil. Susceptible cracks and spaces can be filled with builder's or play box sand and the sand treated with Talstar P Professional. The sand should be treated as soil following the termiticide rate listed on the Talstar® P Professional Insecticide label.

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors which may reduce the effectiveness of the barrier.

**Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.**

#### APPLICATION IN CONJUNCTION WITH THE USE OF TERMITE BAITS

As part of the integrated pest management (IPM) program for termite control, Talstar® P Professional Insecticide may be applied to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations at a rate of 0.06% as a spot treatment or complete barrier treatment. Applications may be made as described in the Postconstruction treatment section of this label.



## TERMITE CONTROL (ABOVE GROUND ONLY)

The purpose of the applications described below are to kill termite workers or winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.

To control exposed workers and winged reproductive termites in localized areas, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply as a course fan spray at the rate of one gallon per 1,000 square feet to attics, crawl spaces, unfinished basements and other void areas. Treat swarming termites as well as the areas in which they congregate.

To control above-ground termites in localized areas of infested wood, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply as a liquid or foam to voids and galleries in damaged wood as well as to spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable to attack. Applications may be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector, into damaged wood or wall voids. All treatment holes drilled in construction elements in commonly occupied areas of structures should be securely plugged after treatment.

To control termite carton nests in building voids, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply as a liquid or foam using a pointed injection tool. Multiple injection points and varying depths of injection may be necessary to achieve control. When possible, the carton nest material should be removed from the building void after treatment.

## LAWN

Apply Talstar® P Professional Insecticide as a broadcast treatment. Use application volumes of up to 10 gallons per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low volume applications, less than 2 gallons/1000 square feet, immediate irrigation of treated area with at least 0.25 inches of water following application to ensure efficacy of sub-surface pests such as, but not limited to, Mole Crickets, is recommended.

## LAWN APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Talstar® P Professional Insecticide may be applied at up to 1 fl. oz. per 1000 square feet to control each of the pests listed in this Table. The higher application rates should be used when maximum residual control is desired or heavy pest populations occur.

| Pest                                                                                                                                                                                                                                                                                                                                     | Application Rate<br>Talstar® P Professional Insecticide |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Armyworms <sup>1</sup><br>Cutworms <sup>1</sup><br>Sod Webworm <sup>1</sup>                                                                                                                                                                                                                                                              | 0.18 - 0.25<br>fluid oz. per 1000 sq. ft.               |
| Annual Bluegrass Weevil (Hyperodes) (Adult) <sup>2</sup><br>Banks Grass Mite <sup>6</sup><br>Billbugs (Adult) <sup>3</sup><br>Black Turfgrass Ataenius (Adult) <sup>4</sup><br>Centipedes<br>Crickets<br>Earwigs<br>Fleas (Adult)<br>Grasshoppers<br>Leafhoppers<br>Mealybugs<br>Millipedes<br>Mites <sup>5</sup><br>Pillbugs<br>Sowbugs | 0.25 - 0.5<br>fluid oz. per 1000 sq. ft.                |
| Crane Flies <sup>12</sup>                                                                                                                                                                                                                                                                                                                | 0.5 fluid oz. per 1000 sq. ft.                          |
| Ants<br>Chinch Bugs <sup>5</sup><br>Fleas (Larvae) <sup>7</sup><br>Imported Fire Ants <sup>8</sup><br>Japanese Beetle (Adult)<br>Mole Cricket (Adult) <sup>9</sup><br>Mole Cricket (Nymph) <sup>10</sup><br>Stink Bugs<br>Ticks <sup>11</sup>                                                                                            | 0.5 - 1.0<br>fluid oz. per 1000 sq. ft.                 |

**In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).**

**In New York State, do make a single repeat application of Talstar® P Professional Insecticide if there are signs of renewed insect activity, but not sooner than two weeks after the first application.**

## Comments

<sup>1</sup>**Armyworms, Cutworms and Sod Webworms:** To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (Up to 1 fluid oz. per 1000 square feet) may be required during periods of high pest pressure.

<sup>2</sup>**Annual Bluegrass Weevil (*Hyperodes*) adults:** Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when *Forsythia* is in full bloom and concludes when flowering dogwood (*Cornus florida*) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

<sup>3</sup>**Billbug adults:** Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

<sup>4</sup>**Black Turfgrass Ataenius adults:** Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhouttei*) and horse chestnut (*Aesculus hippocastanum*). The July application should be timed to coincide with the blooming of Rose of Sharon (*Hibiscus syriacus*).

<sup>5</sup>**Chinch Bugs:** Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch Bugs can be one of the most difficult pests to control in grasses and the higher application rates (Up to 1 fluid oz. per 1000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer.

<sup>6</sup>**Mites:** To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.

<sup>7</sup>**Flea larvae:** Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note: if the lawn area is being treated with Talstar® P Professional Insecticide at 0.25 fluid oz. per 1000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold.

<sup>8</sup>**Imported Fire Ants:** Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Apply broadcast treatments at 0.6 to 1 fluid oz. per 1,000 square feet. Use enough finished volume to penetrate thatch or sod. Treat mounds by applying 1 oz Talstar P Professional per mound in 1 to 2 gallons water by sprinkling the mound until it is wet and treat 3 feet out around the mound. Use the higher volume for mounds larger than 12". Treat mounds with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours.

<sup>9</sup>**Mole Cricket adults:** Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

<sup>10</sup>**Mole Cricket nymphs:** Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

<sup>11</sup>**Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever):** Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed activity. Limit repeat application to no more than once per seven days.

**Deer ticks (*Ixodes sp.*)** have a complicated life cycle that ranges over a two year period and involves four life stages. Applications should be made in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

**American dog ticks** may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

<sup>12</sup>**Crane Flies:** Treatments can be made to control early to mid-season larvae (approximately August – February) as they feed on plant crowns. Treatments made to late-season larvae (approximately March, April) may only provide suppression.

## ORNAMENTALS AND TREES

For ornamental applications (including but not limited to trees, shrubs, ground covers, bedding plants, and foliage plants) apply 0.125 to 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet or 5.4 to 43.5 fl. oz. per 100 gallons. Talstar® P Professional Insecticide may be diluted and applied in various volumes of water providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons.) is not exceeded. Talstar® P Professional Insecticide may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded.

Apply the specified application rate as a full coverage foliar spray. Repeat treatment as necessary to achieve control using higher application rates as pest pressure & foliage area increases. Limit repeat application to no more than once per seven days.

Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.

Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.

## GREENHOUSES AND INTERIORSCAPES

Use Talstar® P Professional Insecticide, either alone or tank mixed with other products, including insect growth regulators, to control a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and interiorscapes including hotels, shopping malls, office buildings, etc.

**Calculating Dilution Rates using the Ornamental and Greenhouse Application Rates Table and the Talstar® P Professional Insecticide Dilution Chart (page 3):** The following steps should be taken to determine the appropriate dilution of Talstar® P Professional Insecticide that is required to control specific pests:

- 1) Identify the least susceptible target pest (the pest requiring the highest application rate for control).
- 2) Select an application rate in terms of fluid oz. of Talstar® P Professional Insecticide.
- 3) Identify your application volume and how much spray mix you want to prepare.
- 4) Use the Dilution Chart to determine the appropriate volume of Talstar® P Professional Insecticide that must be mixed in your desired volume of water.

## ORNAMENTAL and GREENHOUSE APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Talstar® P Professional Insecticide may be applied at up to 1 fluid oz. per 1,000 square feet (43.5 fl. oz. per 100 gallons per acre) to control each of the pest listed in this Table. The higher application rates should be used when maximum residual control is desired.

Apply the specified rate as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage increases.

Certain cultivars may be sensitive to the final spray solution. A small number of plants should be tested prior to application of the entire planting.

Use an alternate class of chemistry in the treatment program is recommended to prevent or delay resistance.

| Pest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Application Rate<br>Talstar® P Professional Insecticide                              |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fluid Ounces per 1,000 square feet                                                   | Fluid Ounces per 100 gallons |
| Bagworms <sup>12</sup><br>Cutworms<br>Elm Leaf Beetles<br>Fall Webworms<br>Gypsy Moth Caterpillars<br>Lace Bugs<br>Leaf Feeding Caterpillars<br>Tent Caterpillars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.125 - 0.25                                                                         | 5.4 - 10.8                   |
| Adelgids <sup>†</sup><br>Aphids<br>Bees<br>Beet Armyworm<br>Beetles <sup>13,†</sup><br>Black Vine Weevil (Adults)<br>Brown Soft Scales<br>Broad Mites<br>Budworms<br>California Red Scale (Crawlers) <sup>13</sup><br>Centipedes<br>Cicadas<br>Citrus Thrips<br>Clover Mites<br>Crickets<br>Diaprepes (Adults)<br>Earwigs<br>European Red Mite<br>Flea Beetles<br>Fungus Gnats (Adults)<br>Grasshoppers<br>Japanese Beetle (Adult) <sup>†</sup><br>Leafhoppers<br>Leafrollers<br>Mealybugs<br>Millipedes<br>Mites<br>Orchid Weevil<br>Pillbugs<br>Plant Bugs (Including <i>Lygus</i> spp.)<br>Psyllids <sup>†</sup><br>Scale crawlers, such as California scale, San Jose scale, etc. <sup>13</sup><br>Scorpions<br>Sowbugs<br>Spider Mites <sup>14</sup><br>Spiders<br>Spittlebugs <sup>†</sup><br>Thrips<br>Tip Moths<br>Treehoppers <sup>†</sup><br>Twig Borers <sup>13</sup><br>Wasps<br>Weevils <sup>13</sup><br>Whiteflies | 0.25 - 0.5                                                                           | 10.8 - 21.7                  |
| Ants<br>Imported Fire Ants**<br>Leafminers<br>Pecan Leaf Scorch Mite<br>Pine Shoot Beetle (Adults)<br>Sawfly larvae<br>Spider Mites <sup>14</sup><br>Stink Bugs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.5 - 1.0                                                                            | 21.7 - 43.5                  |
| Mosquitoes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | See Mosquito Control directions for residual control rates and information on page 5 |                              |

<sup>12</sup>**Bagworms:** Apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective.

<sup>13</sup>**Beetles<sup>†</sup>, Scale Crawlers, Twig Borers, and Weevils:** Treat trunks, stems and twigs in addition to plant foliage.

<sup>14</sup>**Spider Mites:** Talstar® P Professional Insecticide provides optimal twospotted spider mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable twospotted spider mite control during mid- to late-summer. The addition of a surfactant or horticultural oil may increase the effectiveness of Talstar® P Professional Insecticide. Combinations of Talstar® P Professional Insecticide with other registered miticides have also proven effective. Alternately, Talstar® P Professional Insecticide applications may be rotated with those of other products that have different modes of action in control programs that are designed to manage resistance by twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.

\*\*For foraging ants.

<sup>†</sup>Not for use in California.

## Attention

Prior to applying Talstar P Professional Insecticide to wood siding, especially rough wood siding, be sure to thoroughly agitate the tank mixture. Prior to treating wood siding, test a small area and allow it to dry to be sure no deposits will form. Follow the same procedure when applying to wood surfaces in direct sunlight or the heat of the day.

Application equipment that delivers low volume treatments, such as the

Micro-Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and surface treatments of Talstar P Professional Insecticide.

## Restrictions

Do not apply this product in a way that will contact any person or pet either directly or through drift.

Do not apply a broadcast application to interior surfaces of homes.

Do not apply to pets, food crops, or sources of electricity.

Firewood is not to be burned for one month after treatment.

Use only in well ventilated areas.

Do not use on edible crops

During any application to overhead areas within the structure, cover surfaces below with plastic sheeting or similar material, except for soil surfaces in crawlspaces.

Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.

Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.

Do not treat areas where food is exposed.

During indoor surface applications do not allow dripping or run-off to occur.

Do not allow people or pets on treated surfaces until spray has dried.

Let surfaces dry before allowing people and pets to contact surfaces.

Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.

Do not apply in classrooms when in use.

Do not apply when occupants are present in the immediate area in institutions such as libraries, sports facilities, etc.

## Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.**

To the extent allowed by law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

Talstar, Talstar P Professional and FMC —Trademarks of FMC Corporation

Micro-Injector is a registered trademark of Whitmire Micro-Gen Research Laboratories

Actisol is a registered trademark of Roussel-Uclaf

**SAFETY DATA SHEET**  
**TALSTAR® PROFESSIONAL INSECTICIDE**

**SDS # : 1349-A**  
**Revision date: 2019-03-19**  
**Format: NA**  
**Version 1.09**



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** TALSTAR® PROFESSIONAL INSECTICIDE

**Other means of identification**

**Product Code(s)** 1349-A

**Synonyms** BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl (1R,3R)-rel-3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethylcyclopropanecarboxylate (CAS name); 2-methyl-3-phenylbenzyl (1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name)

**Active Ingredient(s)** Bifenthrin

**Chemical Family** Pyrethroid Pesticide

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label.

**Supplier Address**

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)  
1 202 / 483-7616 (CHEMTREC - Alternate International)

Medical Emergencies:  
1 800 / 331-3148 (U.S.A. & Canada)  
1 651 / 632-6793 (All Other Countries - Collect)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                    |            |
|----------------------------------------------------|------------|
| Acute toxicity - Oral                              | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4 |
| Carcinogenicity                                    | Category 2 |
| Specific target organ toxicity (single exposure)   | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

### GHS Label elements, including precautionary statements

#### EMERGENCY OVERVIEW

#### Danger

#### Hazard Statements

H302 - Harmful if swallowed  
H332 - Harmful if inhaled  
H351 - Suspected of causing cancer  
H370 - Causes damage to organs  
H372 - Causes damage to organs through prolonged or repeated exposure



#### **Precautionary Statements - Prevention**

P202 - Do not handle until all safety precautions have been read and understood  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
P330 - Rinse mouth

#### **Precautionary Statements - Storage**

P405 - Store locked up

#### **Precautionary Statements - Disposal**

P501 - Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

#### **Other Information**

Very toxic to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Pyrethroid Pesticide.

| Chemical name    | CAS-No     | Weight % |
|------------------|------------|----------|
| Bifenthrin       | 82657-04-3 | 7.9      |
| Propylene glycol | 57-55-6    | = or <20 |

Synonyms are provided in Section 1.

#### 4. FIRST AID MEASURES

|                                                                                             |                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                                                                          | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.                               |
| <b>Skin Contact</b>                                                                         | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.                                                                                                     |
| <b>Inhalation</b>                                                                           | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                                  |
| <b>Ingestion</b>                                                                            | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| <b>Most important symptoms and effects, both acute and delayed</b>                          | Central nervous system effects.                                                                                                                                                                                                                                         |
| <b>Indication of immediate medical attention and special treatment needed, if necessary</b> | Treat symptomatically. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.  |

#### 5. FIRE-FIGHTING MEASURES

|                                                              |                                                                                   |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                          | Foam. Carbon dioxide (CO <sub>2</sub> ). Dry powder. Water spray.                 |
| <b>Unsuitable extinguishing media</b>                        | Avoid heavy hose streams.                                                         |
| <b>Specific Hazards Arising from the Chemical</b>            | None known                                                                        |
| <b><u>Explosion data</u></b>                                 |                                                                                   |
| <b>Sensitivity to Mechanical Impact</b>                      | No information available.                                                         |
| <b>Sensitivity to Static Discharge</b>                       | No information available.                                                         |
| <b>Protective equipment and precautions for firefighters</b> | As in any fire, wear self-contained breathing apparatus and full protective gear. |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. |
| <b>Other</b>                     | For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.   |
| <b>Environmental Precautions</b> | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.              |
| <b>Methods for Containment</b>   | Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.       |



**Methods for cleaning up**

Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

## 7. HANDLING AND STORAGE

**Handling**

Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

**Storage**

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container.

**Incompatible products**

None known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

| Chemical name                 | British Columbia | Quebec | Ontario TWAEV                                                                                                                            | Alberta |
|-------------------------------|------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Propylene glycol<br>(57-55-6) | -                | -      | TWA: 10 mg/m <sup>3</sup><br>aerosol only<br><br>TWA: 50 ppm<br>aerosol and vapor<br><br>TWA: 155 mg/m <sup>3</sup><br>aerosol and vapor | -       |

**Appropriate engineering controls****Engineering measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

This product does not cause significant eye irritation or eye toxicity requiring special protection. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

**Skin and Body Protection**

Wear long-sleeved shirt, long pants, socks, and shoes.

**Hand Protection**

Protective gloves

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

**General information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                              |                          |
|------------------------------|--------------------------|
| Appearance                   | Beige Liquid             |
| Physical State               | Liquid                   |
| Color                        | Beige                    |
| Odor                         | Mild                     |
| Odor threshold               | No information available |
| pH                           | 6.7                      |
| Melting point/freezing point | Not applicable           |
| Boiling Point/Range          | No information available |
| Flash point                  | Does not flash           |
| Evaporation Rate             | No information available |
| Flammability (solid, gas)    | No information available |
| Flammability Limit in Air    |                          |
| Upper flammability limit:    | No information available |
| Lower flammability limit:    | No information available |
| Vapor pressure               | No information available |
| Vapor density                | No information available |
| Relative density             | 8.53 lb/gal              |
| Specific gravity             | 1.024 @ 20°C             |
| Water solubility             | Dispersible in water     |
| Solubility in other solvents | No information available |
| Partition coefficient        | No information available |
| Autoignition temperature     | No information available |
| Decomposition temperature    | No information available |
| Viscosity, kinematic         | No information available |
| Viscosity, dynamic           | No information available |
| Explosive properties         | No information available |
| Oxidizing properties         | No information available |
| Molecular weight             | No information available |
| Bulk density                 | 8.53 lb/gal              |

## 10. STABILITY AND REACTIVITY

|                                    |                                                                                |
|------------------------------------|--------------------------------------------------------------------------------|
| Reactivity                         | None under normal use conditions                                               |
| Chemical Stability                 | Stable under recommended storage conditions.                                   |
| Possibility of Hazardous Reactions | None under normal processing.                                                  |
| Hazardous polymerization           | Hazardous polymerization does not occur.                                       |
| Conditions to avoid                | Heat, flames and sparks.                                                       |
| Incompatible materials             | None known.                                                                    |
| Hazardous Decomposition Products   | Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride, Chlorine, fluorine. |

## 11. TOXICOLOGICAL INFORMATION

### Product Information

|                                   |                             |
|-----------------------------------|-----------------------------|
| LD50 Oral                         | 632 mg/kg (rat)             |
| LD50 Dermal                       | > 2000 mg/kg (rabbit)       |
| LC50 Inhalation                   | 1.60 mg/L 4 hr (rat)        |
| Serious eye damage/eye irritation | Practically non-irritating. |
| Skin corrosion/irritation         | Non-irritating.             |
| Sensitization                     | Non-sensitizing.            |

| Chemical name                 | LD50 Oral           | LD50 Dermal            | LC50 Inhalation              |
|-------------------------------|---------------------|------------------------|------------------------------|
| Bifenthrin<br>(82657-04-3)    | 55 mg/kg ( rat )    | > 2000 mg/kg ( rat )   | 0.8 mg/L ( female, rat ) 4 h |
| Propylene glycol<br>(57-55-6) | 20000 mg/kg ( Rat ) | 20800 mg/kg ( Rabbit ) |                              |

### Information on toxicological effects

**Symptoms** Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic toxicity** Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure.

**Mutagenicity** Bifenthrin: Not genotoxic in laboratory studies.

**Carcinogenicity** Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice.

**Neurological effects** Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure.

**Reproductive toxicity** Bifenthrin: No toxicity to reproduction in animal studies.

**Developmental toxicity** Bifenthrin: Not teratogenic in animal studies.

**STOT - single exposure** Causes damage to organs. See listed target organs below.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. See listed target organs below.

**Target organ effects** Bifenthrin: Central Nervous System.

**Neurological effects** Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| <b>Bifenthrin (82657-04-3)</b> |           |           |        |       |
|--------------------------------|-----------|-----------|--------|-------|
| Active Ingredient(s)           | Duration  | Species   | Value  | Units |
| Bifenthrin                     | 96 h LC50 | Fish      | 0.1    | µg/L  |
|                                | 72 h EC50 | Algae     | 0.822  | mg/L  |
|                                | 48 h EC50 | Crustacea | 0.11   | µg/L  |
|                                | 21 d NOEC | Fish      | 0.012  | µg/L  |
|                                | 21 d NOEC | Crustacea | 0.0013 | µg/L  |

**Persistence and degradability** Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Bifenthrin: The substance has a potential for bioconcentration.

**Mobility** Bifenthrin: Immobile. Not expected to reach groundwater.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT** This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

**TDG** Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>UN/ID no</b>             | UN3082                                                                           |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.                              |
| <b>Hazard class</b>         | 9                                                                                |
| <b>Packing Group</b>        | III                                                                              |
| <b>Marine Pollutant</b>     | Bifenthrin.                                                                      |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, III |

### ICAO/IATA

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>UN/ID no</b>             | UN3082                                                                           |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.                              |
| <b>Hazard class</b>         | 9                                                                                |
| <b>Packing Group</b>        | III                                                                              |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, III |
| <b>Limited quantity</b>     | 30 kg G                                                                          |

### IMDG/IMO

|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| <b>UN/ID no</b>             | UN3082                                                                           |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.                              |
| <b>Hazard class</b>         | 9                                                                                |
| <b>Packing Group</b>        | III                                                                              |
| <b>EmS No.</b>              | F-A, S-F                                                                         |
| <b>Marine Pollutant</b>     | Bifenthrin                                                                       |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin), 9, III |

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name           | CAS-No     | Weight % | SARA 313 - Threshold Values % |
|-------------------------|------------|----------|-------------------------------|
| Bifenthrin - 82657-04-3 | 82657-04-3 | 7.9      | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                          |     |
|------------------------------------------|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic health hazard</b>             | Yes |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical name                 | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium Hydroxide<br>1310-73-2 | 1000 lb                     |                        |                           | X                          |

#### CERCLA

**TALSTAR® PROFESSIONAL INSECTICIDE**

SDS #: 1349-A

Revision date: 2019-03-19

Version 1.09

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical name                 | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|-------------------------------|--------------------------|------------------------------------|
| Sodium Hydroxide<br>1310-73-2 | 1000 lb<br>454 kg        |                                    |

**FIFRA INFORMATION**

*This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:*

**CAUTION**

*Harmful if swallowed, inhaled or absorbed through skin.*

*This pesticide is extremely toxic to fish and aquatic invertebrates.*

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Bifenthrin<br>82657-04-3    | X          |               |              |
| Propylene glycol<br>57-55-6 | X          |               | X            |

**International Inventories**

| Chemical name               | TSCA<br>(United States) | DSL<br>(Canada) | EINECS/ELINC<br>S (Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL (Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|-----------------------------|-------------------------|-----------------|----------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| Bifenthrin<br>82657-04-3    |                         |                 |                            | X               | X                | X            |                        |                     |
| Propylene glycol<br>57-55-6 | X                       | X               | X                          | X               | X                | X            | X                      | X                   |

**Mexico - Grade**

Serious risk, Grade 3

| Chemical name | Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use - Threshold Quantities | Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Bifenthrin    | 100<br>2500 kg/yr                                                                                                             | 100 kg/yr                                                                            |

**WHMIS Statement**

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**WHMIS Hazard Class**

D2A - Very toxic materials

**16. OTHER INFORMATION**

|      |                   |                |                   |                       |
|------|-------------------|----------------|-------------------|-----------------------|
| NFPA | Health Hazards 2  | Flammability 2 | Instability 0     | Special Hazards -     |
| HMIS | Health Hazards 2* | Flammability 2 | Physical hazard 0 | Personal Protection X |

\*Indicates a chronic health hazard.

**NFPA/HMIS Ratings Legend**

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date: 2019-03-19  
Reason for revision: SDS sections updated

**Disclaimer**

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of FMC Corporation, FMC corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

**Prepared By:**

FMC Corporation

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**End of Safety Data Sheet**



**Control  
Solutions Inc.**

A member of the ADAMA Group

# Taurus® SC

## Termiticide/Insecticide

78 oz. makes 100 gallons, 20 oz. makes 25 gallons

Contains Fipronil, the same active used in Termidor® SC

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

- For sale to, use and storage only by individuals/firms licensed or registered by the state to apply termiticide and/or general pest control products.
- **DO NOT** use this product for termite or other pest control indoors, except for label-specified applications for termite control and foam applications to wall voids for control of other listed pests.
- **DO NOT** use on golf course turf. May be used for control of termites and other listed pests found on/near structures associated with golf courses, but only as specified on this label.
- **DO NOT** use on animal trophies or animal skins.
- **DO NOT** use on/in commercial bee hives.

See inside booklet for additional **Restrictions, First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific use sites and/or restrictions.

For sale to, use and storage only by individuals/firms licensed or registered by the state to apply termiticide and/or general pest control products.

### Active Ingredient

\*Fipronil..... 9.1%

**Other Ingredients** ..... 90.9%  
100.0%

\*(5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1R,S)-(trifluoromethyl)sulfinyl)-1H-pyrazole-3-carbonitrile)

Taurus SC termiticide / insecticide contains 0.8 pounds active ingredient per gallon.

### KEEP OUT OF REACH OF CHILDREN

### Caution/Precaución

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

(See attached label for additional precautionary information and complete Directions for Use).

EPA Reg. No. 53883-279

EPA Est. No. 53883-TX-002

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

Net Contents: \_\_\_\_

| <b>FIRST AID</b>                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment.                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                |
| <b>If swallowed:</b>                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• Call a Poison Control Center or doctor immediately.</li> <li>• <b>DO NOT</b> induce vomiting unless told to by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give any liquid to the person.</li> <li>• <b>DO NOT</b> give anything to an unconscious person.</li> </ul> |
| <b>If on skin or clothing:</b>                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                          |
| <b>If inhaled:</b>                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                            |
| <b>If in eyes:</b>                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                   |
| <b>Note to Physician:</b> There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur. |                                                                                                                                                                                                                                                                                                                                |
| <b>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® (866) 897-8050 for emergency medical treatment information</b>                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                |

### **PRECAUTIONARY STATEMENTS** **Hazards to Humans and Domestic Animals**

#### **Caution**

Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

#### **Personal Protective Equipment (PPE):** **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
  - Shoes plus socks
  - Waterproof gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber\* ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils
- \*Includes natural rubber blends and laminates

#### **When working in a non-ventilated space, including but not limited to basements and crawl spaces, all pesticide handlers must wear:**

- A dust/mist filtering respirator which includes a NIOSH approved respirator with any N, R, P, or HE filter or NIOSH approval number prefix TC-84A

#### **When working in a non-ventilated space, including but not limited to basements and crawl spaces or when applying termiticide by rodding or sub-slab injection, all pesticide handlers must wear:**

- Protective eyewear (goggles, a faceshield, or safety glasses with front, brow, and temple protection)

Follow the manufacturer's instructions for cleaning/maintaining PPE. IF no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.



**User Safety Recommendations**

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove contaminated clothing. Then wash body thoroughly with soap and water and put on clean clothing. Wash clothing with detergent and hot water before reusing.

Remove PPE immediately after handling this product. Wash outside of gloves before removing. Wash PPE before reusing.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses, this pesticide is toxic to birds, fish, and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care must be taken to avoid runoff. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters or rinsate.

**DIRECTIONS FOR USE**

It is violation of federal law to use this product in a manner inconsistent with its labeling.

Read entire label before using this product.

For sale to, use and storage only by individuals/firms licensed or registered by state to apply termiticide and/or general pest control products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product.

**Use Direction for Prevention and/or Control of Termites and Other Wood-infesting Pests****USE RESTRICTIONS:**

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediate adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean-up is completed.

- Prior to drilling and treating through concrete structures, such as patios, porches, sidewalks and foundation slabs applicator should first determine that there are no habitable areas below that could be unintentionally contaminated by the treatment.
- Only protected applicators wearing personal protective equipment as required by this product label may be in the area during application.
- All holes in commonly occupied areas into which this termiticide / insecticide product has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.
- Do not apply finished dilution of this product until all heating/air conditioning ducts, air vents, plumbing pipes, sewer lines, floor drains, heating pipes and electrical lines/conduits are known and identified. Do not puncture or contaminate any of these.
- Do not use this product in voids insulated with rigid foam.
- Do not treat within a distance of one foot out from the drip line of edible plants.
- Do not treat fruit-bearing or nut-bearing trees.
- Do not contaminate public and private water supplies.
- Do not make treatments while precipitation is occurring.
- Do not treat soil that is water-saturated or frozen, or in conditions where runoff or movement from the treatment area/site will occur.

## Product Information

When used in accordance with the directions in this label, this product provides effective prevention and/or control of subterranean termites. This product must be applied in a manner which provides a continuous treated zone to effectively prevent termites from infesting wood.

This product may only be applied by licensed technicians familiar with trenching, rodding, short rodding, sub-slab injection, low-pressure banded surface applications and foam delivery techniques. This product is a highly effective termiticide against a variety of subterranean, arboreal, drywood, and dampwood (e.g. *Reticulitermes*, *Zootermopsis*, *Heterotermes*, and *Coptotermes*), and other wood-infesting pests (e.g., carpenter ants, beetles, borers)

Taurus SC is labeled for use at 0.06%, 0.09%, or 0.125% finished dilution. The 0.06% finished dilution should be used for typical prevention and/or control situations. Where severe termite or other wood-infesting pest infestations, problem soils, or problem construction types exist, it is advisable to use 0.09% or 0.125% Taurus SC finished dilution, if permitted in the applicable use directions throughout this label. Where permitted within the use directions, Taurus SC can be applied as a foam application as directed in the Foam Applications for Prevention and/or Control of Termite, Woodinfesting Pests, and General Pest Control section of this label.

## Mixing Instructions

To mix Taurus SC termiticide / insecticide:

1. Fill the tank 1/4 to 1/3 full with water. The filling hose must be equipped with an anti-backflow device or water flow must include an air gap to protect against back siphoning.
2. Start the pump to begin by-pass agitation and place the end of the treating tool in the tank to allow circulation through the hose.
3. Add the appropriate amount of Taurus SC required to prepare the desired dilution.
4. Add the remaining water.
5. Continue to run the pump allowing recirculation through the hose back into the tank until the Taurus SC is completely dispersed.

**NOTE:** For tanks pre-filled with water, follow steps 2, 3, and 5 above.

**NOTE:** Recirculation/agitation may not be required for inline injection or other application systems.

- To mix a 0.06% dilution, add 0.8 fluid ounces of Taurus SC per gallon of finished dilution
- To mix a 0.09% dilution, add 1.2 fluid ounces of Taurus SC per gallon of finished dilution.
- To mix a 0.125% dilution, add 1.6 fluid ounces of Taurus SC per gallon of finished dilution.

## Application Rates for Termiticide Use

For most applications, use the 0.06% dilution and apply at a rate of 4 gallons of dilution per 10 linear feet per foot of depth. For example, for treatment of 10 linear feet with a four-foot depth, use 4 x 4 (16) gallons per 10 linear feet. Do not apply at a concentration less than 0.06%. Where severe termite infestations occur, where problem soils occur or where difficult or problem construction types are encountered, it may be advisable to use either 0.09% or 0.125% concentration. Apply the higher concentration at a rate of 4 gallons of solution per 10 linear feet per foot of depth. For example, for treatment of 10 linear feet with a four-foot depth, use 16 (4 x 4) gallons per 10 linear feet. In dense soil that will not accept a volume of 4 gallons per linear foot per foot of depth, use the 0.125% dilution, and apply at a rate of 2 gallons per 10 linear feet per foot of depth. For example, for treatment of 10 linear feet with a four-foot depth, use 8 (2 x 4) gallons per 10 linear feet. When using the lower volume of application, be careful to maintain a continuous treated zone. If application requires drilling, drill holes less than 12" apart to maintain a continuous treated zone.

## PRE-CONSTRUCTION TERMITE TREATMENTS

### Basic Information for Pre-construction Termite Treatments

For pre-construction treatments, up to and including installation of the finished grade:

- **DO NOT** apply at a **LOWER** dosage and/or concentration than 0.06%, 0.09%, or 0.125% for horizontal and vertical treatments.
- **DO NOT** apply at a **LOWER** finished dilution volume than 1.0 to 1.5 gallons per 10 square feet for concrete slabs on ground or in basements (horizontal treated zones.)
- **DO NOT** apply at a **LOWER** finished dilution volume than 2 gallons per 10 linear feet per foot of depth for vertical treated zones along this interior and exterior perimeter of foundation walls and around pillars and other foundation elements.

In advance of treatment, applicators must notify the general contractor, construction superintendent, or other responsible personnel of the intended Taurus SC application and the intended sites of application. Applicators must instruct the person responsible to notify construction workers and other individuals on site to vacate the treatment area and not to return until Taurus SC has been absorbed into the soil. Do not apply at a dosage and/or concentration lower than 0.06% for applications up to and including installation of the final grade.

#### **Application Information**

Pre-construction treatments include any treatment made during all phases of construction up to and including installation of the final grade. Establishing a thorough and complete horizontal and vertical treated zone will provide effective pre-construction termite control.

When foundations are deeper than 4 feet, it is preferable to apply Taurus SC as the backfill is being replaced. If the backfill is already in place, the applicator must trench and rod into the trench or trench along the foundation walls, around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When trenching, trenches must be a minimum of 6 inches deep (no deeper than the bottom of the footing) and need not be wider than 6 inches. When trenching in sloping or tiered soil, the trench must be stepped to ensure adequate distribution and to prevent Taurus SC from running out of the trench. When the top of the footing is exposed, the soil adjacent to the footing must be treated to a depth not to exceed the bottom of the footing. Never treat any structure below the footing.

#### **Concrete Slab (Including Monolithic, Floating and Supported Concrete Slabs) on Ground or in Basements and Crawl Spaces**

**Horizontal treated zones:** Apply an overall treatment of Taurus SC to the entire surface to be covered by the concrete slab. This includes living area, as well as carports, porches, basement floors, and any extended entrances. Apply this treatment at the rate of 1 to 1.5 gallons of finished dilution per 10 square feet using a coarse spray nozzle and low-pressure spray (less than 25 p.s.i.). Spray the dilution evenly and uniformly over the entire area to be treated. If the slab is not to be poured the same day as treatment, cover the treated soil with a waterproof barrier such as polyethylene sheeting.

**Vertical treated zones:** Apply Taurus SC at a rate of 1 gallon of finished dilution per square foot around anything penetrating the slab such as utility service and plumbing lines. Apply Taurus SC at a rate of 4 gallons of finished dilution per 10 linear feet per foot of depth along the inside and outside perimeter of foundation walls. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements. If the footing is more than 4 feet below grade, make this treatment to a minimum of 4 feet below grade. A trench need not be any wider than 6 inches. Treat the soil which will be replaced into the trench using a low-pressure spray (not more than 25 p.s.i. at the nozzle). When rodding from grade or from the bottom of a shallow trench, space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone.

It is highly recommended that a complete horizontal treated zone be created prior to the slab pour. However, if the slab was poured before a horizontal treatment could be made, refer to the "Post-Construction" section of this label for alternate application instructions.

#### **Hollow Block Foundations or Voids**

Create a continuous treatment zone by treating hollow block foundations or voids in masonry resting atop the footing. If voids in the masonry elements are not openly accessible, drill and treat into these voids by applying 2 gallons of finished dilution per 10 linear feet of footing using a nozzle pressure of 25 p.s.i. or lower. When using this treatment, drill the access holes as close to the footing as is practical. Drilling below the sill plate is acceptable. Applicators must examine the treated areas of voids in block or rubble foundation walls closely for possible runoff as a precaution against application leakage. Mechanical alteration to some areas may be required before a treatment can be made. Other areas may not be treatable.

All leaks resulting during the application of Taurus SC in locations other than those prescribed on this label must be cleaned up before leaving the application site. Do not allow people or pets to come in contact with contaminated areas or allow them to reoccupy the treatment site until the clean-up is completed.

### **POST-CONSTRUCTION CONVENTIONAL STRUCTURAL TERMITE TREATMENT**

#### **Application Information**

For applications of Taurus SC made after the final grade is installed to protect the structure from termite infestation and/or to control existing termite populations, the applicator must trench and rod into the trench or trench along the foundation walls, around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than 4 feet below grade, treat to a minimum

depth of four feet. The depth of treatment will vary depending on soil type, degree of compaction and location of termite activity. When the top of the footing is exposed, the soil adjacent to the footing must be treated to a depth not to exceed the bottom of the footing. Never treat any structure below the footing.

To establish a complete exterior perimeter treatment zone along the foundation wall, drill any exterior concrete structures adjoining the foundation, such as patios, porches and sidewalks, and treat by sub-slab injection of Taurus SC finished dilution.

Before treatment, locate and identify all heating or air conditioning vents and ducts, water and sewer plumbing lines, electrical lines and conduits, and avoid contamination or damage to these structural elements.

### **Concrete Slab Over Soil (Including Monolithic, Floating and Supported Slabs):**

**Exterior perimeter:** Apply by trenching and rodding into the trench or by trenching along the foundation walls at the rate of 4 gallons of finished dilution per 10 linear feet per foot of depth, or, if the footing is more than 4 feet below grade treat to a minimum depth of 4 feet. Trenches need not be wider than 6 inches and must be a minimum of 6 inches deep or to the bottom of the footing. Never treat a structure below the footing. Space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone. Mix the finished dilution into the soil before replacing it into the trench.

**Sub-slab injection:** Sub-slab injection treatments can be made from inside the structure, or in cases where this is not possible, from the outside of the structure by drilling through the foundation as directed below. Before treatment, locate and identify all heating or air conditioning vents and ducts, water and sewer plumbing lines, electrical lines and conduits, and avoid contamination or damage to these structural elements.

**Vertical drilling / injection:** Make treatments under the slab by drilling vertically through the slab along the interior perimeter of the foundation including the garage. Drill holes along all concrete expansion joints, cracks, plumbing and utility services penetrating the slab. Drill holes along interior partition walls when there is clear evidence of termite activity or damage. Space all drill-holes no more than 12 inches apart in a manner which will create a continuous treated zone. Inject the finished dilution of Taurus SC into the drill-holes at a rate of 4 gallons per 10 linear feet per foot of depth. When making applications, use a lateral dispersal nozzle to achieve the best results. After treatment, all holes in commonly occupied areas must be plugged with a non-cellulose material or covered with an impervious, non-cellulose material.

**Horizontal drilling / rodding / sub-slab injection from the exterior of the foundation:** Use this technique to treat underneath the slab only when floors or interior design do not allow for treatment by vertical drilling. Care must be taken not to rod into heating or air conditioning vents and ducts, water and sewer plumbing lines, electrical lines and conduits. Use horizontal short rodding practices to create a continuous treated zone into the soil proximal to the inside of the foundation wall. Angle drill-holes through the outside of the foundation to ensure deposition of Taurus SC below any existing heating ducts, water and sewer lines, or electrical conduits. Use horizontal long rodding practices only when the areas to be treated underneath the slab are not accessible by vertical rodding or horizontal short rodding. Do not use long rods exceeding 20 feet. For all horizontal rodding applications space drill-holes no more than 12 inches apart in a manner which will create a continuous treated zone. Inject the finished dilution of Taurus SC into the drill-holes at a rate of 4 gallons per 10 linear feet per foot of depth. All holes must be plugged with a non-cellulose material or covered by and impervious, non-cellulose material.

**Bath traps:** Treat exposed soil or soil covered with tar or similar sealants beneath or around plumbing and/or drain pipe entry areas with a minimum of 1 gallon but not more than 4 gallons of finished dilution per square foot. It may be necessary to remove tar or sealant to ensure adequate soil penetration. Install an access door or inspection portal if one is not already present. After inspection and removal of all wood or cellulose debris, treat the soil by rodding or drenching with the finished dilution of Taurus SC.

**Shower drains:** To treat the soil beneath and adjacent to shower pan drains, drill through the slab adjacent to the shower pan and apply the finished dilution of Taurus SC by sub-slab injection. Foam can be used to maximize dispersion. Drill multiple access points adjacent to the drain, and use a directional dispersion tip to enhance the treatment of the soil beneath the drain. Treat with a minimum of 1 gallon but not more than 4 gallons of finished dilution per shower drain. Horizontal rodding can be used to access and treat soil associated with the shower drain.

**Structures with French Drains and Sump Pumps:** In sites where French drains exist at the footer along the foundation perimeter, common in hollow block foundation structures, the soil must be dry before applications can be made. Do not treat soil that is saturated or frozen. Do not make treatments while precipitation is occurring. To prevent seepage of finished dilution or damage to drains or tiles, do not rod through the slab any closer than 24 inches from French drains. Do not apply Taurus SC within 5 feet from the sump pump pit and pump. Do not drill through hollow block foundations that border French drains to prevent drainage or seepage from the block into the drains. Identify and locate French drains, then apply Taurus SC in the following manner:

- 1) Unplug the sump pump. Inspect the sump pit for water. If no water is present, keep the sump pump unplugged while making the treatment.
- 2) If water is in the pump pit, unplug the sump pump and remove four cups of water from the pit. Mark the water level. Wait 10 minutes then check the water level in the pit. If the water level has risen, there is too much seepage to make a treatment. If the water level has not risen, a treatment can be made as long as the sump pump remains unplugged.

During application, check the sump pump pit every few minutes for the presence of termiticide dilution. If dilution is detected, stop the treatment immediately and remove all dilution from the pump pit before plugging the pump back in. Dispose of the dilution from the sump pump pit as directed by this label in the **"Storage and Disposal"** section.

#### **Basement Structures:**

**Exterior perimeter:** Apply by trenching and rodding into the trench or by trenching along the foundation walls at the rate of 4 gallons of finished dilution of Taurus SC per 10 linear feet per foot of depth, or, if the footing is more than 4 feet below grade treat to a minimum depth of 4 feet. Trenches need not be wider than 6 inches and must be a minimum of 6 inches deep or to the bottom of the footing. When trenching in sloping or tiered soil, the trench must be stepped to ensure adequate distribution and to prevent Taurus SC from running out of the trench. Never treat a structure below the footing. Space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone. Mix the finished dilution into the soil before replacing it into the trench.

**Interior perimeter:** To treat under the basement floor slab, drill vertically through the slab along the interior perimeter of the foundation. Drill holes along all concrete expansion joints, cracks, and any plumbing or utility services penetrating the slab. Drill holes along both sides of partition foundation walls, and around piers. Where there is clear evidence of termite activity in a non-foundation interior partition wall, drill holes through the slab adjacent to the wall along one side. Space all drill-holes no more than 12 inches apart in a manner which will create a continuous treated zone. Inject the finished dilution of Taurus SC into the drill-holes at the rate of 4 gallons per 10 linear feet per foot of depth. When making applications, use a lateral dispersal nozzle to achieve the best results. After treatment, all holes in commonly occupied areas must be plugged with a non-cellulose material or covered with an impervious, non-cellulose material.

**Accessible Crawl Space Construction:** Before treatment turn off any air circulation equipment that moves air from the area to be treated to any untreated interior space of the structure. Do not turn the air circulation system back on until the application of Taurus SC is completed and has been absorbed into the soil. Treat crawl spaces by applying a vertical Taurus SC termiticide treatment at the rate of 4 gallons of finished dilution per 10 linear feet per foot of depth from grade to the top of the footing, or, if the footing is more than 4 feet below grade treat to a minimum depth of 4 feet. Apply by trenching, or by trenching and rodding into the trench. Treat both sides of foundation and around all piers and pipes. In areas where physical obstructions exist that prevent trenching, such as concrete walkways adjacent to the foundation, apply by rodding alone. Where soil type and/or conditions make trenching impossible, apply by rodding. When the top of the footing is exposed, treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing directions in the "Mixing Instructions" section of this label when encountering soil types which will not accept the full application volume.

- Rod holes and trenches must not extend beneath the bottom of the footing.
- Space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone.
- Trenches need not be wider than 6 inches and must be a minimum of 6 inches deep or to the bottom of the footing. When trenching in sloping or tiered soil, the trench must be stepped to ensure adequate distribution and to prevent Taurus SC from running out of the trench. Mix the finished dilution into the soil before replacing it into the trench.

**Inaccessible Crawl Space Construction:** Before treatment turn off any air circulation equipment that moves air from the area to be treated to any untreated interior space of the structure. Do not turn the air circulation system back on until the application of Taurus SC is completed and has been absorbed into the soil. For any inaccessible interior areas, for example where the clearance between the floor joists and ground surfaces do not allow for operator access, excavate, if possible, and follow the instructions for accessible crawl spaces. When excavation is not possible, apply one or a combination of the following two methods:

- 1) Establish a horizontal treated zone by applying 1 gallon of finished dilution of Taurus SC with a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 80110LP Teejet or comparable nozzle) per 10 square feet of soil surface using a nozzle pressure of less than 25 p.s.i. For any area which cannot be reached with the application wand, use one or more extension rods. Do not broadcast or power spray with high pressures.
- 2) Establish a horizontal treated zone by drilling through the foundation wall or through the floor above and treat the soil adjacent to the foundation at a rate of 1 gallon of finished dilution of Taurus SC per 10 square feet. Drill spacing must not exceed 16 inches between drill-holes. Many states have smaller interval requirements so check state regulations before application. Treat the soil adjacent to foundation elements with short or long rodding techniques without drilling if it is possible to reach the soil to be treated with the treatment tool.

**Hollow Block Foundations / Voids:** Establish a continuous treated zone in hollow block foundations or voids in masonry resting on top of the footing by drilling and treating into voids of multiple masonry elements of the structure to soil level. If not openly accessible, drill and treat into voids of masonry elements. Apply 2 gallons of finished dilution per 10 linear feet of footing at a nozzle pressure of 25 p.s.i. or less. When making this treatment, drill access holes as close as possible to the footing, below the level of the sill plate if necessary. Applicators must examine the treated areas for possible runoff as a precaution against application leakage. Mechanical alteration to some areas may be required before a treatment can be made. Other areas may not be treatable. All leaks resulting during the application of Taurus SC in locations other than those prescribed on this label must be cleaned up before leaving the application site. Do not allow people or pets to come in contact with contaminated areas until the clean-up is completed.

**Treatment of Structures with Wells or Cisterns:**

**Do not contaminate wells or cisterns.**

Do not apply Taurus SC within 5 feet of any well or cistern. Treat soil 5 to 10 feet from any well or cistern by backfill method only. Treat soil adjacent to water pipes within 3 feet of grade by backfill method only.

**Backfill method:**

- 1) Trench to remove the soil to be treated and place it into a wheelbarrow or onto heavy plastic sheeting or similar material.
- 2) Treat the soil at a rate of 4 gallons of finished dilution of Taurus SC per 10 linear feet per foot of trench depth, or at a rate of 1 gallon per cubic foot of soil. Mix the Taurus SC thoroughly into soil while taking care to prevent runoff or spillage.
- 3) After the treated soil has completely absorbed the finished dilution of Taurus SC, put it back into the trench.

**Structures Adjacent to Wells / Cisterns and / or Other Bodies of Water:** Prior to application examine any structure with nearby sources of water such as wells, cisterns, ponds, streams or other bodies of water, then follow the treatment procedures described below.

- 1) If the pipe(s) from the well enter the structure with 3 feet of grade, expose them if possible prior to treatment. Treat the soil adjacent to the water pipe(s) using the backfill method described above.
- 2) Take precautions, prior to treatment, to limit the risk of Taurus SC being applied into subsurface drains which empty into any bodies of water, including evaluating whether treatment of the footer could result in contamination of subsurface drains. Take into consideration such factors as depth to the drain system, soil type and degree of soil compaction when determining the depth of treatment.
- 3) Use the treated backfill method, when appropriate (e.g., on the water side of the structure), to minimize off-site movement of Taurus SC.
- 4) To minimize potential runoff of Taurus SC into non-target areas, apply a finished dilution of 0.125% at a rate of 2 gallons per 10 linear feet per foot of depth.

**Plenum Construction:** Before treatment turn off any air circulation equipment that moves air from the area to be treated to any untreated interior space of the structure. Do not turn the air circulation system back on until the application of Taurus SC is completed and has been absorbed into the soil. Treat the soil exterior to the foundation walls according to the instructions in the “Accessible Crawl Space Construction” section of this label. Follow the instructions below for interior treatment of plenum structures that use a sealed under floor space to circulate heated or cooled air throughout the structure:

- 1) Remove sealing fabric and anything on the sealing fabric to expose no more than an 18 inch width adjacent to all foundation structures, including foundation walls, interior piers, pipes and any other structures in contact with soil. Treat according to the instructions for exterior and interior treatment in the “Accessible Crawl Space Construction” section of this label.
- 2) After the finished dilution of Taurus SC has been absorbed into the soil, return the sealing fabric and anything removed from the surface of the sealing fabric to their original pre-treatment positions.

**Foam Application:** When construction practices, soil subsidence, or other factors make it difficult to establish a continuous treated zone with conventional liquid application methods, supplement treat with the use of foam-generating equipment. Foam applications are useful in the treatment of filled stoops and porches, chimney bases, into block voids, behind masonry or other veneers, and into stud walls. Utilize applications of dry foam only (a range of 15:1 to 50:1 expansion ratio) when treating voids in stud walls. Apply foam to wall voids where evidence of termite presence or damage exist or are suspected.

Foam only treatments under slabs are appropriate when maximum horizontal coverage is desired. In areas with no deep foundation or footing (for example: around plumbing entries and near settlement cracks in concrete slabs). Use both conventional liquid application and foam treatment in areas where both lateral spread and deeper vertical penetration of Taurus SC are desired. Effective treatment is highly dependent on volume and amount of active ingredient. Apply at least 75% of the finished dilution of Taurus SC as a liquid treatment, then deliver the remaining 25% or less to the appropriate areas as a foam application. The total amount of product applied as a combined foam and liquid treatment should be equivalent to volume of Taurus SC liquid finished dilution required for a liquid application alone. Foam applications provide a good supplement to liquid applications in difficult to treat areas.

**Foam mixing instructions:** Prepare the desired finished dilution of Taurus SC, then mix with the manufacturer's recommended quantity of foaming agent in foaming equipment. Apply a sufficient volume of Taurus SC foam to establish a continuous treated zone at the rates recommended in this label for specific applications. When sufficient foam volume cannot be applied to achieve the recommended rate of Taurus SC supplement the treatment with additional liquid finished dilution to assure appropriate treatment volume and concentration in the treated area.

- 1 gallon of finished dilution at a foam expansion ratio of 25:1 makes 25 gallons of foam.
- 1.66 gallons of finished dilution at a foam expansion ratio of 15:1 makes 25 gallons of foam.
- 2.5 gallons of finished dilution at a foam expansion ratio of 10:1 makes 25 gallons of foam.
- 5 gallons of finished dilution at a foam expansion ratio of 5:1 makes 25 gallons of foam.

|                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>POST-CONSTRUCTION EXTERIOR PERIMETER / LOCALIZED INTERIOR (EP / LI) STRUCTURAL<br/>TERMITE TREATMENT –</b> <i>(Not approved for use in Louisiana)</i></p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **General Information**

This post-construction application of Taurus SC can be made after the final grade is installed to protect the structure from termite infestation and/or to control existing termite populations. This treatment method is designed to be non-invasive to the interior of the structure with the establishment of a continuous treated zone along the exterior of the foundation and only treating interior spaces where termite activity has been found. If you have questions regarding this treatment, consult the appropriate state agency.

**Termite activity is defined as the presence of one or more of the following signs of infestation:**

- 1) Alates (winged termites) have swarmed inside the structure.
- 2) Live termites are found to be active within the structure.
- 3) There is clear evidence of termite activity on or inside the structure such as the presence of mud tubes, galleries in wood.

Do not apply Taurus SC finished dilution as perimeter / localized interior treatment at a concentration lower than 0.06% or at an application volume lower than those specified in the "Application Rates for Termiticide Use" section of this label.

### **EXTERIOR PERIMETER TREATMENT**

To prevent termite infestation of a structure, exterior perimeter applications of Taurus SC must be made in a manner which will create a continuous treated zone. If situations are encountered where the soil will not accept the full application volume recommended in the use directions below, read and follow the direction in the "Application Rates for Termiticide Use" section of this label.

**Concrete Slab on Ground (Including Monolithic, Floating and Supported Concrete Slabs):** Apply along the exterior foundation perimeter by trenching and rodding into the trench or by trenching at the rate of 4 gallons of finished dilution per 10 linear feet per foot of depth. Trenches need not be wider than 6 inches and must be a minimum of 6 inches deep or to the bottom of the footing. Space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone. Mix the finished dilution into the soil before replacing it into the trench.

In areas where physical obstructions exist that prevent trenching, such as concrete walkways adjacent to the foundation, apply by rodding alone. Where soil type and/or conditions make trenching impossible, apply by rodding. In order to establish a complete exterior perimeter treatment zone, drilling and sub-slab treatment will be necessary wherever adjoining concrete structures exist such as patios, porches or sidewalks. For driveways, exterior drilling is necessary only around building supports or wall elements permanently located at driveway joints. Never treat a structure below the footing.

**Basement and Inaccessible Crawl Space Construction:** Apply along the exterior foundation perimeter by trenching and rodding into the trench or by trenching along the foundation walls at the rate of 4 gallons of finished dilution of Taurus SC per 10 linear feet per foot of depth, or, if the footing is more than 4 feet below grade treat to a minimum depth of 4 feet. Trenches need not be wider than 6 inches and must be a minimum of 6 inches deep or to the bottom of the footing. When trenching in sloping or tiered soil, the trench must be stepped to ensure adequate distribution and to prevent Taurus SC from running out of the trench. Space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone. Mix the finished dilution into the soil before replacing it into the trench. Never treat a structure below the footing.

In areas where physical obstructions exist that prevent trenching, such as concrete walkways adjacent to the foundation, apply by rodding alone. Where soil type and/or conditions make trenching impossible, apply by rodding. In order to establish a complete exterior perimeter treatment zone, drilling and sub-slab treatment will be necessary wherever adjoining concrete structures exist such as patios, porches or sidewalks. For driveways, exterior drilling is necessary only around building supports or wall elements permanently located at driveway joints. Never treat a structure below the footing.

If termite activity is detected inside an inaccessible crawl space, the area must be treated. Make a localized interior treatment at the site of termite activity and extending at least 2 feet in both directions from the activity. Choose the appropriate application technique for treating inaccessible crawl space construction by referring to the "POST-CONSTRUCTION CONVENTIONAL STRUCTURAL TERMITE TREATMENT" section of this label.

**Accessible Crawl Space Construction:** Before treatment turn off any air circulation equipment that moves air from the area to be treated to any untreated interior space of the structure. Do not turn the air circulation system back on until the application of Taurus SC is completed and has been absorbed into the soil.

Treat crawl spaces by applying a vertical Taurus SC termiticide treatment at the rate of 4 gallons of finished dilution per 10 linear feet per foot of depth from grade to the top of the footing, or, if the footing is more than 4 feet below grade treat to a minimum depth of 4 feet. Apply by trenching, or by trenching and rodding into the trench. Treat outside of foundation and around all piers and pipes. In areas where physical obstructions exist that prevent trenching, such as concrete walkways adjacent to the foundation, apply by rodding alone. Where soil type and/or conditions make trenching impossible, apply by rodding. When the top of the footing is exposed, treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. In order to establish a complete exterior perimeter treatment zone, drilling and sub-slab treatment will be necessary wherever adjoining concrete structures exist such as patios, porches or sidewalks. If situations are encountered where the soil will not accept the full application volume recommended in the use directions below, read and follow the direction in the "Application Rates for Termiticide Use" section of this label.

- Rod holes and trenches must not extend beneath the bottom of the footing.



- Space the rod holes no more than 12 inches apart in a manner which will create a continuous treated zone.
- Trenches need not be wider than 6 inches and must be a minimum of 6 inches deep or to the bottom of the footing. When trenching in sloping or tiered soil, the trench must be stepped to ensure adequate distribution and to prevent Taurus SC from running out of the trench. Mix the finished dilution into the soil before replacing it into the trench.

To prevent standalone (i.e., not associated with foundation elements) termite shelter tube formation between soil and structural members in previously untreated area(s), an overall soil treatment of Taurus SC may be applied. Remove all cellulose debris before treatment. Apply Taurus SC finished dilution per 10 square feet to provide uniform treated zones. Apply using a coarse application nozzle with nozzle pressure of 25 PSI or less.

**Garages:** Attached garage floors should be treated.

**Sub-slab injection:** Sub-slab injection treatments can be made from inside the garage, or in cases where this is not possible, from the outside of the structure by drilling through the foundation as directed below. Before treatment, locate and identify all heating or air conditioning vents and ducts, water and sewer plumbing lines, electrical lines and conduits, and avoid contamination or damage to these structural elements.

**Vertical drilling / injection:** Make treatments under the slab by drilling vertically through the slab along the interior perimeter of the garage foundation. Drill holes along all concrete expansion joints, cracks, plumbing and utility services penetrating the slab. Drill holes along interior partition walls when there is clear evidence of termite activity or damage. Space all drill-holes no more than 12 inches apart in a manner which will create a continuous treated zone. Inject the finished dilution of Taurus SC into the drill-holes at a rate of 4 gallons per 10 linear feet per foot of depth. When making applications, use a lateral dispersal nozzle to achieve the best results. After treatment, all holes in commonly occupied areas must be plugged with a non-cellulose material or covered with an impervious, non-cellulose material such as Portland cement.

**Horizontal drilling / rodding / sub-slab injection from the exterior of the garage foundation:** Use this technique to treat underneath the slab only when interior design do not allow for treatment by vertical drilling. Care must be taken not to rod into heating or air conditioning vents and ducts, water and sewer plumbing lines, electrical lines and conduits. Use horizontal short rodding practices to create a continuous treated zone along the inside perimeter of the foundation. Angle drill-holes through the outside of the foundation to ensure deposition of Taurus SC below any existing heating ducts, water and sewer lines, or electrical conduits. Use horizontal long rodding practices only when the areas to be treated underneath the slab are not accessible by vertical rodding or horizontal short rodding. Do not use long rods exceeding 20 feet. For all horizontal rodding applications space drill-holes no more than 12 inches apart in a manner which will create a continuous treated zone. Inject the finished dilution of Taurus SC into the drill-holes at rate of 4 gallons per 10 linear feet per foot of depth. All holes must be plugged with a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

### **LOCALIZED INTERIOR TREATMENT**

As part of a complete treatment, targeted interior applications may be made to vulnerable areas such as around plumbing or utility services penetrating floors, bath and / or shower traps, or along concrete expansion joints or settlement cracks.

If known termite activity exists in areas inside living spaces or in non-living spaces (such as crawl spaces, plenums etc.) of the structure, a localized interior treatment must be made at the immediate vicinity of the termite activity and radiating out at least 2 feet from the site in two or more directions.

**Hollow Block Foundations / Voids:** When termite activity is evident in or in the vicinity (within 2 feet) of hollow block foundations or voids in masonry resting on the footing, drill the wall adjacent to the evidence, if not openly accessible, and inject the finished dilution of Taurus SC into the void at a rate of 2 gallons per 10 linear feet of footing using a nozzle of 25 p.s.i. or less. This localized interior treatment to hollow block must be made at the site of the termite activity and to areas above the termite activity. Treatment must be applied radiating out at least 2 feet in two or more directions from the site of activity or along the wall pier or support post. Use of foam will maximize dispersion. When using this treatment, drill access hole below the sill plate as close as possible to the footing as is practical.

Applicators must examine the treated areas of voids in block or rubble foundation walls closely for possible runoff as a precaution against application leakage. Mechanical alteration to some areas may be required before a treatment can be made. Other areas may not be treatable.

All leaks resulting during the application of Taurus SC in locations other than those prescribed on this label must be cleaned up before leaving the application site. Do not allow people or pets to come in contact with contaminated areas or allow them to reoccupy the treatment site until the clean-up is completed.

The drilled holes in commonly occupied areas must be plugged with a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

**Bath Traps:** If termite activity is evident within 2 feet of a bath trap, exposed soil or soil covered with tar or a similar sealant around plumbing and / or drainpipe entry areas must be treated. Tar or sealant may have to be removed to ensure adequate soil penetration. Install an access door or inspection portal if one is not already present. After all wood and cellulose debris is removed, treat the soil by rodding or drenching with a minimum of 1 gallon to a maximum of 4 gallons of finished dilution of Taurus SC per square foot.

**Shower Drains:** If termite activity is evident within 2 feet of a shower drain, soil beneath and adjacent to the drain must be treated. Drill through the slab adjacent to the shower drain and apply the finished dilution of Taurus SC by sub-slab injection to the soil below. Multiple access points may be drilled adjacent to the drain. Use of foam will maximize dispersion. Use of a directional dispersion tip will further enhance the treatment of the soil beneath the drain. Treat the soil with a minimum of 1 gallon but no more than 4 gallons of finished dilution per shower drain. Horizontal rodding can also be used to access and treat soil associated with a shower drain.

### Use with Other Termiticide Products

**Use with Borate-based Termiticide Products:** When a borate-based termiticide product is used as the primary pre-construction termite treatment and is applied according to that termiticide's label directions for use, a Taurus SC finished dilution may be applied as an exterior perimeter pre-construction termite treatment. If the exterior perimeter pre-construction termite treatment option is selected, Taurus SC finished dilution must be applied to create a continuous treated zone along the exterior foundation of the structure. A complete and thorough horizontal pre-construction termite treatment with Taurus SC finished dilution under the concrete slab is optional. Taurus SC finished dilution may also be applied to critical areas of the interior of the structure (e.g., plumbing and utility entry sites, bath traps, shower pan drain penetrations, expansion joints, foundation cracks, outside foundations walls, areas of known or suspected termite activity).

For applications to the exterior perimeter and critical areas, follow instructions in the **Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments** section of this label.

**Use with Non-borate-based Termiticide Products:** Taurus SC finished dilution may be applied as a spot/partial supplemental termite treatment when another registered non-borate-based termite prevention and/or control product/system is used as the primary treatment. These supplemental Taurus SC treatments can be made to critical areas of the structure (e.g., plumbing and utility entry sites, bath traps, shower pan drain penetrations, expansion joints, foundation cracks, outside foundation walls, areas of known or suspected termite activity at either pre-construction or post-construction sites) according to **Use Directions for Prevention and/or Control of Termites and Other Wood-infesting Pests** on this label.

**Retreatment Instructions:** Annual retreatment of a structure is prohibited. Retreatment for subterranean termites can only be performed under the following circumstances:

1. There is clear evidence of re-infestation.
2. There is disruption of the treated zone due to construction, excavation, or landscaping and / or there is evidence of the breakdown of termiticide treated zone in the soil.

Treat these vulnerable or re-infested areas using a spot, partial or complete treatment in accordance with the application techniques described in this label. The timing and selection of retreatment type will vary depending on such factors as termite pressure, soil types and conditions, and other factors which may reduce the effectiveness of the treated zone.

## POSTS, POLES, WOODEN LANDSCAPE ORNAMENTATION

### **DO NOT contaminate wells or cisterns.**

**Preventative Treatment:** Create a continuous treatment zone in the soil around wooden posts, poles, fence posts, signs and landscaping ornamentation. Apply the finished dilution of Taurus SC at the rate of 4 gallons per 10 linear feet per foot of depth. When performing the treatment at the time of installation, the finished dilution may be applied to the soil as it is replaced around the pole or post. The application should place termiticide to a depth of 6 inches below the bottom of posts, poles or other wooden objects in contact with soil.

**Curative Treatment:** Treat previously installed wooden posts, poles, fence posts, signs and landscaping ornamentation with the finished dilution of Taurus SC by sub-surface injection or by gravity flow through holes made at the bottom of a trench around posts and poles. When trenching, the trench need not be wider than 6 inches and should be 6 inches deep. When sub-surface injecting, treat all sides to create a continuous treatment zone. Apply termiticide to a depth of 6 inches below the bottom of the wood.

## Prevention and/or Control of Wood-infesting Pests

### **Above Ground Termites and Carpenter Ants in Localized Areas**

Carpenter ant use in above ground localized areas not registered in California.

For prevention and/or control of above ground termites and carpenter ants in localized areas, apply 0.06% Taurus SC finished dilution (or foam) to:

- Voids and galleries in damaged wood, in spaces between wooded structural members, and between the sill plate and foundation where wood is vulnerable. Applications may also be made to inaccessible areas by drilling and injecting into the structural voids or damaged wood.
- Termite carton nests in structural voids. Application at multiple injection points to varying depths may be necessary. Carton nest material may be removed from structural voids.
- Man-made voids using a coarse fan application (or foam) to control exposed worker winged reproductive forms or termites or carpenter ants.

### **Termites or Carpenter Ants in Trees or Nonstructural Wood or Wood-to-soil Contacts**

Carpenter ant use in trees or nonstructural wood or wood-to-ground contacts not registered in California.

### **Do not treat fruit-bearing or nut-bearing trees.**

For prevention and/or control of existing or future infestations of termites or carpenter ants in decking and fencing materials, landscape timbers and similar nonstructural wood-to-soil contacts, trees, and utility poles, apply 0.06% Taurus SC dilution (or foam) by the following methods.

- If possible, locate and treat the interior infested cavity by injection.
- Nonstructural wood-to-soil contacts may be treated as a spot application or continuous treated zone. Apply Taurus SC to the soil as a drench or by rodding around the base of the points of soil contact. Rod holes must be placed 3-inches away from soil contact points and spaced no more than 12-inches apart along the perimeter of soil contact points.
- For small poles or posts (i.e., less than 6 inches in diameter), apply 1 gallon of Taurus SC finished dilution per foot depth. For larger poles or posts, apply 4 gallons of Taurus SC finished dilution per 10 linear feet per foot depth.

### **Termite Carton Nests in Trees**

### **Do not treat fruit-bearing or nut-bearing trees.**

For control of termite carton nests in trees, inject Taurus SC finished dilution (or foam). Application to multiple injection points to varying depths may be necessary. Carton nest material may be removed from tree(s). In all states **except California**, an application of the Taurus SC finished dilution may be applied to soil as a drench or by rodding around the root flare of the tree to prevent reinfestation by termites from the soil. For small trees (i.e., less than or equal to 6 inches in diameter), apply 1 gallon of Taurus SC finished dilution. For larger trees, apply 4 gallons of Taurus SC finished dilution per 10 linear feet measured as the circumference at the root flare.

## **Drywood Termites and Wood-infesting Beetles or Borers**

**Drywood termite and wood-infesting beetle or borer uses not registered in California.**

**NOTE: Before treatment, turn off any air circulation system that moves air from area(s) to be treated to an untreated interior space of the structure until application has been completed and sprays have dried.**

Treat galleries in structural and/or nonstructural elements and structural voids with Taurus SC finished dilution using a foam, low-pressure spray (25 PSI or less at the nozzle), or mist.

- Locate galleries using visual signs (e.g., blistered wood, emergence or clean out holes, frass, or pellets), the presence of live insects, mechanical sounding techniques, or listening devices (e.g., acoustic emission detectors, stethoscopes).
- Drill holes to penetrate the gallery system for treatment; distribute drill holes to adequately cover the gallery system.
- **DO NOT** apply where electrical shock hazards exist.
- Drill holes must be sealed after treatment.

## **Carpenter Bees in Localized Areas**

**Carpenter bee use in localized areas not registered in California.**

For control of carpenter bees in localized areas, apply 0.06% Taurus SC finished dilution (as a spray, mist or foam) directly into gallery entrance holes. After application, gallery entrance holes should be plugged.

|                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------|
| <b>DIRECTIONS FOR USE TO CONTROL LISTED PESTS ON OUTSIDE SURFACES AND ALONG FOUNDATION PERIMETER OF LISTED STRUCTURES</b> |
|---------------------------------------------------------------------------------------------------------------------------|

Listed structures are residential, institutional, commercial and industrial buildings and utility enclosures.

### **USE RESTRICTIONS:**

- Only applicators wearing the personal protective equipment required by this product label may be in the area during application.
- Do not treat within a distance of 1 foot out from the drip line of edible plants.
- Do not contaminate water, food, or feed. Cover or remove all exposed food, feed and drinking water.
- Do not contaminate public or private water supplies.
- Do not apply to wasp or hornet nests if they are not attached to or within the structure.
- Do not make treatments during times of precipitation.
- Do not allow residents, children, other people or pets into the treatment area until sprays have dried. After treatment, the applicator is required to check for leaks resulting in the deposition of treatment dilution in locations other than those prescribed in this label. When found, this material must be cleaned prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until clean-up is completed.
- Do not spray air conditioning units or intake vents.
- Do not use indoors except for application into structural voids.
- Do not apply to playground equipment and pet quarters.
- Do not apply to applications to runoff or drip from treated surfaces.
- Do not apply to boat houses, including their piers or pilings.
- Do not use in a spray tank with borate contaminants.
- Doors and windows adjacent to application site must be closed during surface application.
- Do not apply within 15 feet of bodies of fresh water; lakes, reservoirs, rivers, permanent streams, marshes, natural ponds and commercial fish ponds. A 15- foot buffer of uniform groundcover must exist between application zone and bodies of fresh water (uniform ground cover is defined as land which supports vegetation of greater than 2 inches in height throughout).
- Do not apply within 60 feet of estuarine bodies of water. Estuarine water bodies are brackish, tidal water bodies such as bays, mouths of rivers, salt marshes and lagoons.

**CALIFORNIA USE RESTRICTIONS:** In addition to use restrictions stated above, applications made in California are subject to the following additional restrictions.

- Do not apply Taurus SC to the garage door, driveway, vertical surfaces above the driveway and garage door, or to cracks and crevices leading or adjacent to the driveway such as the expansion joint between the garage and driveway.
- Do not apply bandwidth at greater than 6 inches out and 6 inches up from where the ground meets the foundation.
- Only use 0.03% dilution mixing rate.
- Do not apply when rain is predicted within 48 hours post-application or during active precipitation.
- Do not re-apply at intervals less than 60 days.
- Do not apply more than 4 times per year.
- Do not make applications on any date between November 1 and February 28.

Use Taurus SC to kill and to provide residual control of the following pests:

Ants (acrobat, Argentine, big-headed, carpenter, crazy, odorous, pavement, pharaoh, and thief)

Use Taurus SC to kill the following pests:

Asian lady beetles, darkling beetles

Australian, Oriental, and smoky brown cockroaches

Black widow, brown recluse, cellar, and hobo spiders

Box-elder bugs, pill bugs

Brown and dog ticks

Centipedes

Cluster flies

European earwigs

House crickets

Millipedes

Paper wasps\*

Silverfish

Yellow jackets

\* Taurus SC is not a knockdown agent.

**MIXING INSTRUCTIONS\*:** For perimeter pest treatments, mix a 0.06% (or 0.03%) spray dilution of Taurus SC by filling the treatment tank 1/4 to 1/3 full with water, then add 0.8 fluid ounces (or 0.4 fluid ounces) of Taurus SC. The filling hose must be equipped with an anti-backflow device or the water flow must include an air gap to protect against back siphoning. Add more water to the tank while agitating to 1 gallon of finished dilution.

| Permitted Taurus SC Frequency and Dilution Rate Application Scenarios <sup>†</sup>                                   |                             |                                                            |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------|
| % Taurus SC finished dilution                                                                                        |                             |                                                            |
| 0.03% 4 times/calendar year                                                                                          | 0.06% 2 times/calendar year | 0.03% 2 times/calendar year and 0.06% 1 time/calendar year |
| <sup>†</sup> In California, only the 0.03% 4 times/calendar year at 1 quart/160 ft application scenario is approved. |                             |                                                            |

**\*CALIFORNIA MIXING INSTRUCTIONS:** For perimeter pest treatments, mix a 0.03% spray dilution of Taurus SC by filling the treatment tank 1/4 to 1/3 full with water, then add 0.4 fluid ounces of Taurus SC. The filling hose must be equipped with an anti-backflow device or the water flow must include an air gap to protect against back siphoning. Add more water to the tank while agitating to 1 gallon of finished dilution.

#### **APPLICATIONS TO EXTERIOR SURFACES OF LISTED STRUCTURES AND INTO WALL VOIDS:**

Apply Taurus SC finished dilution (or foam) as a low-pressure spray to the exterior of the structure where listed pests enter, trail around the structure or where they crawl and hide or their nests are found. Treat using a low-pressure coarse banded surface spray up to 18 inches in width around doors, windows, vents, pipes, foundation cracks, drilled holes or around any exterior openings where listed pests could enter the structure. Make sure to treat the joint where exterior siding (wood, vinyl, aluminum or other similar materials) meets the cement, brick or block foundation. Treat anywhere electrical, cable or telephone wires enter the house. This treatment should be made as a general surface spray, crack and crevice spray, or a

wall void application. Taurus SC may be applied as a foam treatment into wall voids to kill and / or control the above listed pests.

Refer to the **Foam Application** section of this label for specific foam mixing and application instructions.

**In California:** Use only 0.03% finished dilution no more than 4 times per year. Do not apply to garage doors, driveway, vertical surfaces above the driveway and garage door, or to crack and crevices leading or adjacent to the driveway such as the expansion joint between the garage and driveway. Do not apply a bandwidth greater than 6 inches up and out from where the ground meets the foundation.

**APPLICATIONS TO PERIMETER OF LISTED STRUCTURES\*:** Apply Taurus SC finished dilution as a low pressure coarse general surface spray along the foundation exterior perimeter to an area one foot up and one foot out from where the ground meets the foundation.

Apply 2 quarts of Taurus SC finished dilution per 160 linear feet (approximately 1.5 gallons finished spray per 1000 square feet). Nests that are found on the ground within 1 foot of the foundation may be treated. Vegetation touching the structure may offer a route for the entry of ants into the structure without coming into contact with the treatment, therefore, remove or prune away any shrubbery, bushes and tree branches touching the structures.

**\*CALIFORNIA APPLICATIONS TO PERIMETER OF LISTED STRUCTURES:**

Apply 0.03% Taurus SC finished dilution as a low pressure coarse general surface spray along the foundation exterior perimeter to an area 6 inches up and 6 inches out from where the ground meets the foundation. Do not apply Taurus SC to the garage door, driveway, vertical surfaces above the driveway and garage door, or to cracks and crevices leading or adjacent to the driveway such as the expansion joint between the garage and driveway.

In California, apply 1 quart of Taurus SC finished dilution per 160 linear feet (approximately 1.5 gallons finished spray per 1000 square feet). Vegetation touching the structure may offer a route for the entry of ants into the structure without coming into contact with the treatment, therefore, remove or prune away any shrubbery, bushes and tree branches touching the structures.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

##### **Pesticide Storage**

Store unused product in original container only, out of reach of children and animals.

##### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

##### **Container Handling**

**Nonrefillable Container:** Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity  $\leq$  5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

In case of minor spills or leaks, soak up with sand, earth or other suitable material and dispose of as pesticide waste.

## Spills

In case of large-scale spill of this product, call:

-CHEMTREC 1-800-424-9300

### Steps to take if this material is released into the environment or spilled:

- Wear Personal protective Equipment (PPE) and avoid exposure when managing a spill. (See **Precautionary Statements** section of this label for required PPE.)
- Dike and contain the spill with Inert material (e.g., sand, earth) and transfer liquid and solid diking material to separate containers for disposal. Small-scale spills of Taurus SC finished dilution (that can be cleaned up with a typical spill kit) may be applied to labeled sites.
- Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

## WARRANTY STATEMENT

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, Control Solutions, Inc. shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein and to the extent consistent with applicable law, Control Solutions, Inc. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Control Solutions, Inc. election, the replacement of this product.

EPA Reg. No. 53883-279

EPA Est. No. 53883-TX-002

Control Solutions, Inc.,  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

*\*\*Taurus® SC is not manufactured by or distributed by BASF. Termidor® SC is a registered trademark of BASF.*

# SAFETY DATA SHEET

## TAURUS SC

### 1. IDENTIFICATION

Product name: **TAURUS SC**  
Product type: Insecticide  
EPA Registration No.: 53883-279  
Chemical name of active ingredient(s): **Fipronil**: 5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1, R, S)-(trifluoromethyl)sulfinyl)-1-H-pyrazole-3-carbonitrile  
Manufacturer/Registrant: Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507  
For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300  
For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050  
Poison Control Center Phone: 1-800-222-1222

### 2. HAZARDS IDENTIFICATIONS

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

##### Acute Toxicity:

|          | Acute oral | Acute dermal | Acute inhalation | Eye irritation | Skin irritation | Skin Sensitization |
|----------|------------|--------------|------------------|----------------|-----------------|--------------------|
| Category | Category 4 | NC           | Category 4       | 2B             | 2               | NC                 |

NC: Not classified

**SIGNAL WORD:** WARNING

##### HAZARD STATEMENTS:

- Harmful if swallowed.
- Harmful if inhaled
- Cause eye irritation
- Cause skin irritation

##### PICTOGRAM:



##### PRECAUTIONARY STATEMENTS:

- Wash hand thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Call a poison center or a doctor if you feel unwell. Rinse mouth.
- Avoid breathing vapors and spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove victim to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.



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- Wash hands thoroughly after handling. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice.
- Wash hand thoroughly after handling. Wear protective gloves. If on skin: wash with plenty of water. If skin/irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| COMMON NAME      | CAS NO.     | %    | OSHA PEL | ACGIH TLV | OTHER                        | NTP/IARC/OSHA (Carcinogen) |
|------------------|-------------|------|----------|-----------|------------------------------|----------------------------|
| Fipronil         | 120068-37-3 | 9.1  | NE       | NE        | NE                           | NA                         |
| Propylene glycol | 57-55-6     | 9.43 | NE       | NE        | 10 mg/m <sup>3</sup> (TWA)** | NA                         |

NE=Not established; NA=Not applicable.

\*IARC Group 2B: The agent is possibly carcinogenic to humans.

\*\*Recommended by AIHA (American Industrial Hygiene Association)

### 4. FIRST AID MEASURES

| FIRST AID                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF SWALLOWED:</b>                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING:</b>                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                                                          |
| <b>IF INHALED:</b>                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>                                                     |
| <b>IF IN EYES:</b>                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                          |
| <p><b>Note to Physician:</b> There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of overexposure by oral ingestion lethargy muscle tremors and in extreme cases possibly convulsions may occur.</p> |                                                                                                                                                                                                                                                                                                                                                                |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® at (866) 897-8050 for emergency medical treatment information.</p>                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                |

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Not applicable

**FLAMMABLE LIMITS:** Not applicable

**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, foam, dry powder.

**FIRE & EXPLOSION HAZARDS:** Pesticide fires have potential to emit hazardous gases such as carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides, sulfur oxides,

# SAFETY DATA SHEET

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acid halides. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

**FIRE-FIGHTING PROCEDURES:** Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release irritating and toxic gases due to thermal decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Take appropriate protective measures. Wear positive pressure self-contained breathing apparatus (SCBA). Clear area. Dike spillage. Do not touch or walk through spilled material. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Prevent entry into waterways, sewers, basements or confined areas.

### 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Store unused product in original container only out of reach of children and animals.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**HAND PROTECTION:** Chemical-resistant gloves.

**SKIN PROTECTION:** Long-sleeve shirt, long pants, shoes plus socks.

**EYE PROTECTION:** Protective eyewear or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

**RESPIRATOR REQUIREMENTS:** If handling without sufficient ventilation, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C0 or a NIOSH approved respirator with any N, R, P or HE class filter.

**VENTILATION:** Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

#### **ADDITIONAL PROTECTIVE MEASURES:**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

#### **USER SAFETY RECOMMENDATIONS:**

##### **Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 3.

**ENGINEERING CONTROLS:** Minimize airborne concentrations.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Liquid flowable suspension

**ODOR:** Not available

**pH:** 5-7 (1% in water)

**FLASH POINT:** Not applicable

**DENSITY:** 1.06 g/mL @ 26°C

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Strong oxidizing agents. Avoid excessive heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release irritating and toxic gases due to thermal decomposition.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD<sub>50</sub> (Rat): 1,999mg/kg

Acute Dermal LD<sub>50</sub> (Rabbit): > 2,000 mg/kg

Acute Inhalation LC<sub>50</sub> (Rat): > 1.7 mg/L/4 hr

Eye Irritation: Slightly irritating

Skin Irritation: Slightly irritating

Dermal Sensitization: Not a skin sensitizer

**REPRODUCTIVE/DEVELOPMENTAL TOXICITY (data on Fipronil):** Animals studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. No indications of a developmental toxicity or teratogenic effects were seen in animal studies.

**CHRONIC/SUBCHRONIC TOXICITY (data on Fipronil):** Signs of toxicity during a 52-week chronic rat feeding study included reduced feeding and food conversion efficiency, reduced body weight gain, seizures and seizure-related death, changes in thyroid hormones, increased mass of the liver and thyroid, and kidney effects.

**CARCINOGENICITY (data on Fipronil):** The EPA has classified fipronil a Group C Possible Human Carcinogen based on laboratory animal studies (increased thyroid tumors in male and female rats). Humans and rats have the same of the mechanism of action which produced fipronil-induced thyroid tumors in the rat; however, the rat appears to be more highly sensitive than humans. Therefore, fipronil-induced rat thyroid tumors are not considered suggestive of a human health risk. None of the remaining ingredients in the mixture are considered to be carcinogenic.

**MUTAGENICITY (data on Fipronil):** Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to birds, fish and aquatic invertebrates. Do not apply directly to water or to areas where surface waters present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring

# SAFETY DATA SHEET

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areas. Care must be taken to avoid runoff. Do not contaminate water when cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment wash waters.

### ECOTOXICOLOGICAL INFORMATION (data on Fipronil)

Bluegill sunfish (*Lepomis macrochirus*) LC<sub>50</sub> (96 h) – 0.083 mg/L  
Rainbow trout (*Onchorhynchus mykiss*) LC<sub>50</sub> (96 h) – 0.246 mg/L  
Sheephead minnow LC<sub>50</sub> (96 h) – 0.13 mg/L  
Water flea (*Daphnia magna*) NOEL – 9.8 µg/L; LOEL - 20 µg/L  
Bobwhite quail LD<sub>50</sub> - > 11.3 mg/kg

**ENVIRONMENTAL FATE, PERSISTENCE AND DEGRADABILITY, MOBILITY:** Not readily biodegradable (by OECD criteria).

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

### 14. TRANSPORT INFORMATION

**Ground Domestic (DOT):** Not regulated.

**Vessel (IMDG):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (Fipronil), 9, PG III, Marine Pollutant

**Air (IATA):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (Fipronil), 9, PG III

### 15. REGULATORY INFORMATION

#### FIFRA INFORMATION:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**CAUTION** Harmful if swallowed, absorbed through skin, or inhaled. Do not get in eyes or on skin or on clothing. Do not breathe spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

#### SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.  
Section 311/312: Acute health hazard (immediate)  
Chronic health hazard (delayed)  
Section 313: Not applicable

**CA PROPOSITION 65:** Not applicable

**CERCLA RQ:** Not applicable

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

## SAFETY DATA SHEET TAURUS SC

### 16. OTHER INFORMATION

| HAZARD RATINGS | NFPA | HMIS |            |
|----------------|------|------|------------|
| HEALTH:        | 1    | 1    | 0 MINIMAL  |
| FLAMMABILITY:  | 1    | 1    | 1 SLIGHT   |
| REACTIVITY:    | 0    | 0    | 2 MODERATE |
|                |      |      | 3 HIGH     |
|                |      |      | 4 SEVERE   |

**MSDS DATE:** 3-4-2013. Supersedes version dated 5-6-2011. Changes made to all sections.

The information and recommendations contained herein are based upon data believed to be correct. However, no warranty of any kind, expressed or implied, is made with respect to the information contained herein.

# SPECIMEN

Group **2B** Insecticide



# TERMIDOR<sup>®</sup> H•E

## HIGH-EFFICIENCY TERMITICIDE

**It is a violation of federal law to use this product in a manner inconsistent with its labeling.**

- **For use only by individuals/firms licensed or registered by the state to apply termiticide products.**
- **DO NOT** use this product for termite control indoors, except for label-specified applications for termite control.
- **DO NOT** use on golf course turf. May be used for control of termites found on/near structures associated with golf courses, but only as specified on this label.
- **DO NOT** use on/in commercial bee hives.
- **DO NOT** use for general pest control. This product is only for use as a termiticide.
- **DO NOT** use on animal trophies or animal skins.

See inside booklet for additional **Restrictions, First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific use sites and/or restrictions.

**Active Ingredient:**

fipronil: 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(1*R,S*)-(trifluoromethyl)sulfinyl]-  
1*H*-pyrazole-3-carbonitrile ..... 8.73%

**Other Ingredients:** ..... 91.27%

**Total:** ..... 100.00%

One gallon of **Termidor<sup>®</sup> H•E High-Efficiency Termiticide** contains 0.8 lb of fipronil.

EPA Reg. No. 7969-329

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**FOR MEDICAL AND TRANSPORTATION EMERGENCIES ONLY  
CALL 24 HOURS A DAY 1-800-832-HELP (4357)**

**Shake Well**

**Net Contents:**

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

**■ - BASF**  
We create chemistry

| FIRST AID                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If on skin or clothing</b>                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                                                             |
| <b>If swallowed</b>                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul> |
| <b>If in eyes</b>                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                    |
| <b>If inhaled</b>                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                     |
| HOTLINE NUMBER                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                      |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of medical emergency involving this product, call BASF Corporation at 1-800-832-HELP (4357) or dial 911.                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                      |
| <b>NOTE TO PHYSICIAN:</b> There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of over-exposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur. |                                                                                                                                                                                                                                                                                                                                                                      |

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. **DO NOT** get in eyes, on skin, or on clothing. **DO NOT** breathe spray mist.

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber\* ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils

\* Includes natural rubber blends and laminates

#### When working in a non-ventilated space, including but not limited to crawl spaces and basements, all pesticide handlers must wear:

- A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH-approved respirator with any N, R, P or HE filter

#### When working in a non-ventilated space, including but not limited to crawl spaces and basements or when applying termiticide by rodding or sub-slab injection, all pesticide handlers must wear:

- Protective eyewear (goggles, a faceshield, or safety glasses with front, brow, and temple protection)

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for

washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## USER SAFETY RECOMMENDATIONS

### Users should:

- Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## Environmental Hazards

This pesticide is toxic to birds, fish, and aquatic invertebrates. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care must be taken to avoid runoff. **DO NOT** contaminate water by cleaning equipment or disposal of wastes. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

## Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application. Read the entire label before using this product.

**Termidor® H•E High-Efficiency Termiticide** cannot be used to formulate, reformulate, or repackage into any other pesticide product without the written permission of BASF Corporation.

For use only by individuals/firms licensed or registered by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state before use of this product.

| STORAGE AND DISPOSAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DO NOT</b> contaminate water, food, or feed by storage or disposal.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pesticide Storage</b><br>Store unused product in original container only, out of reach of children and animals.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pesticide Disposal</b><br>To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).                                                                                                                                                                  |
| <b>Container Handling</b><br><b>Nonrefillable Container. DO NOT</b> reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.                                                                                    |
| <b>Triple rinse containers small enough to shake (capacity ≤ 5 gallons)</b> as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. |
| <b>Pressure rinse as follows:</b> Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.                              |

**Spills**

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

**Steps to take if this material is released into the environment or spilled:**

- Wear **Personal Protective Equipment (PPE)** and avoid exposure when managing a spill. (See **Precautionary Statements** section of this label for required PPE.)
- Dike and contain the spill with inert material (e.g., sand, earth) and transfer liquid and solid diking material to separate containers for disposal. Small-scale spills of **Termidor® H•E High-Efficiency Termiticide** finished dilution (that can be cleaned up with a typical spill kit) may be applied to labeled sites.
- Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

**Use Restrictions**

- Only protected applicators wearing personal protective equipment, as required by this product label, are allowed to be in the immediate area during application.
- Use anti-backflow or air gap equipment with filling hoses.
- When treating adjacent to an existing structure, the applicator must check the area to be treated and immediate adjacent areas of the structure for visible and accessible cracks and holes to prevent any leaks or significant exposure to persons occupying the structure. People present or residing in the structure during application must be advised to remove themselves and their pets from the structure if they see any sign of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up before leaving the application site. **DO NOT** allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the cleanup is completed.
- **DO NOT** apply product until heating/air conditioning ducts, air vents, plumbing pipes, sewer lines, floor drains, heating pipes, and electrical lines/conduits are known and identified. **DO NOT** puncture or contaminate any of these.
- If concrete structures (e.g., patios, porches, sidewalks, and foundation slabs) or other hard surfaces (e.g., asphalt, flagstone, rock) need to be treated by drilling and treating through concrete, the applicator must first determine that there are no habitable areas below the drill/treatment area that could be unintentionally contaminated by the treatment.
- If drill holes are made, all drill holes in commonly occupied areas into which this product has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material (e.g., Portland cement).
- **DO NOT** use this product in voids insulated with rigid foam.
- For exterior perimeter applications, when physical obstructions (e.g., retaining wall, tree root, brick/stone walkway) adjacent to foundation elements prohibit trenching or creation of continuous treatment zones, make treatments by rodding from either side of the



obstruction. When possible, make these rodding applications with the rod held at an angle that permits application around the obstruction and better ensures continuous treated zones. Rodding alone is only permitted in limited situations where there is no other alternative because of the presence of physical obstructions.

- **DO NOT** treat within a distance of 1 foot out from the drip line of edible plants.
- **DO NOT** contaminate public and private water supplies.
- **DO NOT** make treatments while precipitation is occurring.
- **DO NOT** treat soil that is water saturated, or frozen, or in conditions where runoff or movement from the treatment area/site will occur.

## Product Information

When used as directed in this label, **Termidor® H-E High-Efficiency Termiticide** (henceforth referred to as **Termidor HE**), provides effective prevention and/or control of listed termites. To maximize the termiticide potency, apply **Termidor HE** finished dilution in continuous treated zone(s) to prevent termites from infesting the wood to be protected.

**Termidor HE** finished dilution must only be applied by licensed technicians familiar with trenching, rodding, short-rodding, sub-slab injection, low-pressure banded surface applications, and foam delivery techniques.

**Termidor HE** finished dilution is highly effective against a variety of subterranean, arboreal, drywood, and damp-wood termites including species of *Reticulitermes*, *Coptotermes*, *Heterotermes*, *Nasutitermes*, and *Zootermopsis*.

**Termidor HE** is a water-based suspension concentrate containing 8.73% fipronil and a BASF Corporation-proprietary additive that optimizes the termiticide's performance under a wide range of soil types, environmental conditions, and application techniques.

Pre-construction and post-construction horizontal treatments and post-construction inaccessible crawl space construction treatments may be made with a 0.06% or 0.125% **Termidor HE** finished dilution. Pre-construction vertical and all post-construction treatments (including applications to posts/poles/wood landscape ornamentation and applications for termites above ground) listed on this label must be made using a 0.125% **Termidor HE** finished dilution (exception 0.06% finished dilution option for inaccessible crawl space construction).

## Mixing Instructions

Mix **Termidor HE** in the following manner:

1. Fill tank 1/4 to 1/3 full with water. Filling hose must be equipped with an anti-backflow device or water flow must include an air gap to protect against back-siphoning.
2. Start pump to begin bypass agitation and place end of treating tool in tank to allow circulation through hose.

3. Add appropriate amount of **Termidor HE**. Refer to **Table 1** and **Table 2** for pre-construction and post-construction horizontal treatments and post-construction inaccessible crawl space construction and **Table 3** for pre-construction vertical and all other post-construction treatments to determine the proper amounts to add to prepare the desired amount of finished dilution.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose back into the tank until the **Termidor HE** has completely dispersed.

**NOTE:** For tanks pre-filled with water, follow steps 2, 3, and 5 above.

**NOTE:** Recirculation/agitation may not be required for in-line injection or other application systems.

**(Table 1.) 0.06% Termidor HE Finished Dilution for Pre-construction and Post-construction Horizontal Treatments**

| 0.06% Termidor HE Finished Dilution (gals) | Water (gals) | Termidor HE Termiticide (fl ozs) |
|--------------------------------------------|--------------|----------------------------------|
| 1                                          | 1.00         | 0.8                              |
| 25                                         | 25.00        | 19.8<br>(1 pt + 3.8 fl ozs)      |
| 50                                         | 49.75        | 39.5<br>(1 qt + 7.5 fl ozs)      |
| 100                                        | 99.50        | 79.0<br>(2 qts + 15 fl ozs)      |

**(Table 2.) 0.125% Termidor HE Finished Dilution for Pre-construction and Post-construction Horizontal Treatments**

| 0.125% Termidor HE Finished Dilution (gals) | Water (gals) | Termidor HE Termiticide (fl ozs) |
|---------------------------------------------|--------------|----------------------------------|
| 1                                           | 1.00         | 1.6                              |
| 25                                          | 24.75        | 39.5<br>(1 qt + 7.5 fl ozs)      |
| 50                                          | 49.50        | 79.0<br>(2 qts + 15 fl ozs)      |
| 100                                         | 99.00        | 158.0<br>(1 gal + 30 fl ozs)     |

**(Table 3.) 0.125% Termidor® H-E High-Efficiency Termiticide Finished Dilution for Pre-construction Vertical and All Other Post-construction Treatment Types**

| <b>0.125% Termidor HE Finished Dilution (gals)</b> | <b>Water (gals)</b> | <b>Termidor HE Termiticide (fl ozs)</b> |
|----------------------------------------------------|---------------------|-----------------------------------------|
| 1                                                  | 1.00                | 1.6                                     |
| 25                                                 | 24.75               | 39.5<br>(1 qt + 7.5 fl ozs)             |
| 50                                                 | 49.50               | 79.0<br>(2 qts + 15 fl ozs)             |
| 100                                                | 99.00               | 158.0<br>(1 gal + 30 fl ozs)            |

## Application Volume

To provide maximum control and protection against termite infestation, apply the volumes of **Termidor HE** finished dilution specified in the use directions throughout this label.

### Pre-construction Termite Treatments

For pre-construction treatments, up to and including installation of the finished grade:

- **DO NOT** apply at a **LOWER** dosage and/or concentration than:
  - 0.06% or 0.125% for horizontal treatments; and
  - 0.125% for vertical treatments.
- **DO NOT** apply at a **LOWER** finished dilution volume than 1.0 to 1.5 gallons per 10 square feet for concrete slabs on ground or in basements (horizontal treated zones).
- **DO NOT** apply at a **LOWER** finished dilution volume than 2 gallons per 10 linear feet per foot of depth for vertical treated zones along the interior and exterior perimeter of foundation walls and around pillars and other foundation elements.

Before each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended **Termidor HE** finished dilution application and intended sites of application and instruct the responsible person to notify construction workers and other on-site individuals to leave the treatment area and not return until **Termidor HE** finished dilution has been absorbed into the soil.

Pre-construction treatments include treatments made during all phases of construction up to and including installation of the final grade. Effective pre-construction termite control is achieved by establishing thorough and complete horizontal and vertical treated zones.

When trenching, trenches must be a minimum of 2 inches deep (no deeper than the bottom of the footing) and need not be wider than 4 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent **Termidor HE** finished

dilution from running out of the trench. Mix the finished dilution with the soil as it is replaced in the trench.

When treating foundations deeper than 2 feet, apply **Termidor HE** finished dilution as the backfill is being replaced, or, if the construction contractor fails to notify the applicator in sufficient time to permit this, treat the foundation to a minimum depth of 2 feet after the backfill has been installed.

- The applicator must trench and rod into the trench or trench alone along the foundation walls and around pillars and other foundation elements at the rate indicated from grade to a minimum depth of 2 feet.
- When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing.
- **DO NOT** treat a structure below the bottom of the footing.

## CONCRETE SLAB ON GROUND OR IN BASEMENTS (including Monolithic/Floating/Supported Concrete Slabs)

Horizontal treated zone(s) and interior vertical treated zone(s) applications should be made before covering area with the concrete slabs. If the concrete slab is poured before horizontal treatment, **Termidor HE** finished dilution must be used to treat penetrations, joints, bath traps, shower pan drain accesses, etc., as detailed in the **Post-construction Conventional Structural Termite Treatments** section of this label. However, it is advised that complete horizontal treated zones be created before slab pour.

### Horizontal Treated Zones

Apply an overall treatment of 0.06% or 0.125%

**Termidor HE** finished dilution to the entire surface that is to be covered beneath the concrete slab. This includes the slab under the actual living area, plus carports, porches, basement floors, and any extended entrances. Apply at the rate of 1.0 to 1.5 gallons **Termidor HE** finished dilution per 10 square feet. For horizontal treatments around anything that will penetrate the slab (e.g., utility service, plumbing lines), apply **Termidor HE** finished dilution at the rate of 1.0 to 1.5 gallons finished dilution per one square foot. Make these applications using a coarse spray nozzle and low-pressure spray (25 PSI or less), spraying the dilution evenly and uniformly over the entire area treated. If the slab is not to be poured the same day as treatment, cover the treated soil with a waterproof barrier such as polyethylene sheeting.

### Vertical Treated Zones

Apply **Termidor HE** finished dilution at the rate of 1 gallon finished dilution per square foot around anything penetrating the slab (e.g., utility services, plumbing lines). Apply 2 gallons of 0.125% **Termidor HE** finished dilution per 10 linear feet per foot of depth along the interior and exterior perimeter of foundation walls and around pillars and other foundation elements. Treatments to the exterior

perimeter of foundation walls and other exterior foundation elements must only be made after completion of the final exterior grade. Use low-pressure spray (25 PSI or less at the nozzle) to treat soil as it is replaced into the trench.

- Make vertical treatments by trenching and rodding into the trench or by trenching alone from grade to a minimum depth of the top of the footing, or if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. **DO NOT** treat a structure below the bottom of the footing. When rodding from grade or from the bottom of the trench, rod holes must be spaced no wider than 18 inches apart and not extend below the footing.

### Crawl Spaces

For crawl spaces, apply vertical treatments of 0.125% **Termidor® H-E High-Efficiency Termiticide** finished dilution at the rate of 2 gallons per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, make treatment by rodding alone. When soil type and/or conditions make trenching prohibitive, use rodding. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth of 2 feet or not to exceed the bottom of the footing. Mix the finished dilution with the soil as it is replaced in the trench.

- **DO NOT** treat a structure below the bottom of the footing. When rodding from grade or from the bottom of the trench, rod holes must be spaced no wider than 18 inches apart and not extend below the bottom of the footing.

### Hollow Block Foundations/Voids

Hollow block foundations or voids in masonry resting atop the footing may be treated to create continuous treatment zones in treatment areas. Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil to create continuous treatment zones in the treatment area. Drill and treat into voids of masonry elements, if not openly accessible. Apply at the rate of 2 gallons of 0.125% **Termidor HE** finished dilution per 10 linear feet of footing using a nozzle pressure of 25 PSI or less. When using this treatment, drill access holes below the sill plate and as close as possible to the footing as is practical. Applicators must inspect areas of possible runoff (e.g., voids and blocks, rubble foundation walls) as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration before treatment.

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## Post-construction Conventional Structural Termite Treatments

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### Basic Information for Post-construction Conventional Structural Termite Treatments

For post-construction conventional **Termidor HE** applications made after the final grade is installed to protect the structure from termite infestation and/or for controlling existing termite populations, use a 0.125% **Termidor HE** finished dilution (see 0.06% finished dilution exception in the **Inaccessible Crawl Space Construction** portion of the **Post-construction Conventional Structural Termite Treatments** section of this label).

The applicator must trench and rod into the trench or trench alone along the foundation walls and around pillars and other foundation elements from grade to the top of the footing. When trenching, trenches must be a minimum of 2 inches deep (no deeper than the bottom of the footing) and need not be wider than 4 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent **Termidor HE** finished dilution from running out of the trench. Mix the finished dilution with the soil as it is replaced in the trench.

When the footing is more than 2 feet below grade, the applicator has the option to either (1) trench and rod to a minimum depth of 2 feet into the trench along the foundation walls or (2) trench alone along the foundation walls to a minimum depth of 2 feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth of 2 feet but not to exceed the bottom of the footing. **DO NOT** treat a structure below the bottom of the footing.

Exterior concrete structures adjoining the foundation (e.g., patios, porches, sidewalks) may be drilled followed by a sub-slab injection treatment of **Termidor HE** finished dilution so as to complete the exterior perimeter treatment zones along the foundation walls. All drill holes in commonly occupied areas into which **Termidor HE** finished dilution has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

**DO NOT** apply **Termidor HE** finished dilution until location and type of the following construction elements are known and identified. **DO NOT** puncture any of these during application.

- Electrical lines/conduits
- Heat or air-conditioning ducts and vents
- Water and sewer (or plumbing) lines

## CONCRETE SLAB OVER SOIL (including Monolithic/Floating/Supported Concrete Slabs)

### Exterior Perimeter

Apply 2 gallons of 0.125% **Termidor® H-E**

**High-Efficiency Termiticide** finished dilution by trenching and rodding into the trench or trenching alone along the foundation per 10 linear feet per foot of depth, or, if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. Rod holes must be spaced no wider than 18 inches apart and not extend below the bottom of the footing.

### Sub-slab Injection

Sub-slab injection treatments using a 0.125%

**Termidor HE** finished dilution can be made from the interior of the structure or in cases when this is not possible by drilling through the foundation from the exterior as follows:

- **Vertical Drilling/Injection** - To treat under the slab, drill vertically through the slab along the interior perimeter of the foundation, including the garage. Drill holes along concrete expansion joints, cracks, plumbing, and utility services penetrating the slab. If there is clear evidence of termite activity or damage in an interior partition wall, it may be necessary to drill holes along one side of the slab adjacent to the interior partition wall. All drill holes through the slab must be spaced no wider than 18 inches apart. Apply **Termidor HE** finished dilution to the soil below the slab by injecting through the holes drilled through the slab at the rate of 2 gallons per 10 linear feet per foot of depth. For best results, applications can be made with a lateral-dispersal nozzle.
- **Horizontal Drilling/Rodding/Sub-slab Injection from the Exterior of the Foundation** - Use this technique to treat underneath the slab only when floors or interior design elements do not allow for vertical drilling. Horizontal short-rodding practices can be used to establish a continuous treated zone in the soil closest to the interior of the foundation wall. Drill holes from the exterior of the foundation at an angle which allows **Termidor HE** finished dilution to be deposited below heating ducts, water/sewer lines, and electrical conduits, if present. Horizontal long-rodding practices may only be employed to treat areas underneath the slab not accessible by vertical rodding or horizontal short-rodding. **DO NOT** use long rods exceeding 20 feet. For horizontal rodding applications, drill holes through the foundation must be spaced no wider than 18 inches apart. Inject **Termidor HE** finished dilution into the holes at the rate of 2 gallons per 10 linear feet per foot of depth. These applications can be made with a lateral-dispersal nozzle.
- **Shower Pan Drains** - Soil beneath and adjacent to shower pan drains may be treated. Drill through the slab adjacent to the shower pan drain and apply **Termidor HE** finished dilution by sub-slab injection to the soil below. Foam can be used to maximize dispersion. Multiple access points adjacent to the shower pan drain

may be drilled. A directional dispersion tip may be used to enhance treatment of the soil below the shower pan drain. Treat soil with a minimum of 1 gallon, but no more than 4 gallons **Termidor HE** finished dilution per shower pan drain. Horizontal rodding can be used to access and treat the soil associated with the shower pan drain.

- **Bath Traps** - Treat exposed soil or soil covered with tar or similar sealant beneath or around plumbing and/or drainpipe entry areas. Tar or sealant may have to be removed to allow for adequate soil treatment. An access door or inspection portal may be installed if not already present. After inspection and removal of wood/cellulose debris, the soil can be treated by rodding or drenching the soil with **Termidor HE** finished dilution at the rate of 1 to 2 gallons per square foot.

## STRUCTURES WITH FRENCH DRAINS AND SUMP PUMPS

French drains eliminate water at the footing along a foundation perimeter. They are common in hollow block foundation structures to drain water seeping from the exterior perimeter or underneath the foundation. Soil must be dry before applying to sites with French drains. **DO NOT** rod through the slab any closer than 48 inches to the French drain to prevent **Termidor HE** finished dilution seepage and/or damage to the drain or the tiles. **DO NOT** apply **Termidor HE** within 10 feet of the sump pump pit and pump. To prevent drainage/seepage from the block into the drain, **DO NOT** drill through hollow block foundations that border the French drain.

Once French drains have been identified and located, apply a 0.125% **Termidor HE** finished dilution as follows:

1. Unplug the sump pump. Inspect sump pump pit for water. If no water is present, the treatment can be made provided the sump pump remains unplugged, or
2. If water is in the sump pump pit, unplug the sump pump and remove four cups of water from the sump pump pit. Mark the water level. Wait 10 minutes and check the water level in the sump pump pit again. If the water level has risen, there is too much seepage to perform the treatment at this time. If the water level does not rise, make the treatment provided the sump pump remains unplugged.

During application, check the sump pump pit every few minutes for the presence of **Termidor HE** finished dilution. If detected, stop treatment immediately and remove the contents of the sump pump pit before plugging in the sump pump again. Either apply the removed sump pump pit contents to a labeled site or dispose of the removed contents as directed by this label in the **Pesticide Disposal** section.

**NOTE:** For structures with French drains located adjacent to the outside of the foundation, refer to the **Structures with Adjacent Wells/Cisterns and/or Other Water Bodies** section of this label.



## BASEMENT STRUCTURES

### Exterior Perimeter

Apply by trenching and rodding into the trench or trenching alone along the exterior foundation perimeter at the rate of 2 gallons of 0.125% **Termidor® H-E High-Efficiency Termiticide** finished dilution per 10 linear feet per foot of depth, or if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. Rod holes must be spaced no wider than 18 inches apart. **DO NOT** treat a structure below the bottom of the footing.

### Interior Perimeter

To treat under the basement floor slab, drill vertically through the slab along the interior perimeter of the foundation. Drill holes along concrete expansion joints, cracks, plumbing, and utility services penetrating the slab. Drill holes along both sides of partition foundation walls. It may be necessary to drill holes along one side of the slab adjacent to a non-foundation interior partition wall if there is clear evidence of termite activity in the wall. All drill holes through the slab must be spaced no wider than 18 inches apart. Inject 0.125% **Termidor HE** finished dilution into the drill holes at the rate of 2 gallons per 10 linear feet per foot of depth. This application can be made with a lateral-dispersal nozzle.

## CRAWL SPACES

**NOTE: Before treatment turn off any air circulation system that moves air from area(s) to be treated to an untreated interior space of the structure until application has been completed and all Termidor HE finished dilution has been absorbed by the soil.**

### Accessible Crawl Space Construction

For accessible crawl spaces, apply vertical treatments of 0.125% **Termidor HE** finished dilution at the rate of 2 gallons per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. Apply by trenching and rodding into the trench, or trenching alone. Treat both sides of the foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing.

- **DO NOT** treat a structure below the bottom of the footing. When rodding from grade or from the bottom of the trench, rod holes must be spaced no wider than 18 inches apart and not extend below the bottom of the footing.

### Inaccessible Crawl Space Construction

For inaccessible interior areas (e.g., areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access) excavate, if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods:

1. To establish a horizontal treated zone, apply to the soil surface 1 to 1.5 gallons of 0.06% or 0.125% **Termidor HE** finished dilution per 10 square feet using a nozzle pressure 25 PSI or less and a coarse application nozzle (e.g., **Delavan Type RD Raindrop®**, RD-7 or larger, or **Spraying Systems Co. 80110LP Teejet®** or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. **DO NOT** broadcast or power spray with high pressure.
2. To establish a horizontal treated zone, drill through the foundation wall or through the floor above and treat the soil adjacent to the foundation wall at the rate of 1 to 1.5 gallons of 0.06% or 0.125% **Termidor HE** finished dilution per 10 square feet. Drill spacing must be at intervals no wider than 18 inches apart. Many states have smaller intervals, so check state regulations. Soil adjacent to foundation elements may be treated with short-rodding or long-rodding techniques without drilling if access for treatment tool to soil site is available.

## HOLLOW BLOCK FOUNDATIONS/VOIDS

Hollow block foundations or voids in masonry resting atop the footing may be treated. Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil to create continuous treatment zones in the treatment area. Applicators may drill and treat into voids of masonry elements if not openly accessible. Apply at the rate of 2 gallons of 0.125% **Termidor HE** finished dilution per 10 linear feet of footing using a nozzle pressure of 25 PSI or less. When using this treatment, drill access holes below the sill plate and as close as possible to the footing as is practical. Applicators must inspect areas of possible runoff (e.g., voids and blocks, rubble foundation walls) as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration before treatment.

## TREATMENT OF STRUCTURES WITH WELLS OR CISTERNS

- **DO NOT** contaminate wells or cisterns.

- **DO NOT** apply **Termidor HE** finished dilution within 10 feet of any well or cistern.

Soil between 10 and 15 feet from a well or cistern must only be treated by the backfill method described here. Treatment of soil adjacent to water pipes within 3 feet of grade must only be done by the backfill method.

### Backfill Method

1. Trench and remove soil to be treated and place onto heavy plastic sheeting or similar material or into a wheelbarrow.
2. Treat soil at the rate of 2 gallons 0.125% **Termidor HE** finished dilution per 10 linear feet per foot of depth of the trench, or 1.0 gallon per cubic foot of soil. Mix thoroughly into the soil to contain the liquid and prevent runoff or spillage.

3. After the soil has absorbed the **Termidor® H-E High-Efficiency Termiticide** finished dilution, return the soil into the trench.

## STRUCTURES WITH ADJACENT WELLS/CISTERNS AND/OR OTHER WATER BODIES

Applicators must inspect all structures near water sources (e.g., wells, cisterns, surface ponds, streams, and other bodies of water) and evaluate, at a minimum, the following treatment directions before making an application of 0.125% **Termidor HE** finished dilution.

1. Before treatment, if feasible, expose the water pipe(s) coming from the well to the structure if the pipe(s) enter the structure within 3 feet of grade. Treat soil adjacent to the water pipe(s) according to the backfill method described above.
2. Before treatment, applicators are advised to take precautions to limit the risk of applying **Termidor HE** finished dilution into subsurface drains that could empty into bodies of water. Precautions include evaluating whether application to the top of the footing will result in contamination of the subsurface drain. The applicator should take into account factors such as depth to the drain system, soil type, and degree of soil compaction when determining the depth of treatment.
3. When appropriate (e.g., on the water side of the structure), the treated backfill method can also be used to minimize off-site movement of **Termidor HE** finished dilution.

## PLENUM CONSTRUCTION

**NOTE: Before treatment turn off any air circulation system that moves air from area(s) to be treated to an untreated interior space of the structure until application has been completed and all Termidor HE finished dilution has been absorbed by the soil.**

Follow the directions listed in **Accessible Crawl Space Construction**, including instructions for sloping (tiered) soils, when making applications of 0.125% **Termidor HE** finished dilution to the soil exterior to the foundation walls.

For interior treatment of plenum structures that use a sealed underfloor space to circulate heat and/or cooled air throughout the structure:

1. Ensure the sealing fabric and anything on the sealing fabric is removed to expose no more than 18 inches adjacent to all foundation structures, including foundation walls, interior piers, pipes, and any other structures with soil contact. Follow the preceding instructions for exterior and interior treatment of **Accessible Crawl Space Construction**.
2. After the **Termidor HE** finished dilution has been absorbed by the soil, replace the sealing fabric and anything to be placed on the fabric to its original, pre-treatment position.

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## Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments

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### Basic Information for Post-construction EP/LI Structural Termite Treatments

For post-construction Exterior Perimeter/Localized Interior (EP/LI) **Termidor HE** applications made after the final grade is installed to protect the structure from termite infestation and/or for controlling existing termite populations, use a 0.125% **Termidor HE** finished dilution (see 0.06% finished dilution exception in the **Inaccessible Crawl Space Construction** portion of the **Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments** section of this label).

**Termidor HE** finished dilution can be used to protect structures by following either the use directions in the **Post-construction Conventional Structural Termite Treatments** or the **Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments** sections of this label. Structural termite protection is achieved by first establishing a continuous treated zone along the exterior of the foundation of the structure. Localized interior treatments are also made to areas where known termite activity is observed. If no termite activity is observed on the interior of the structure at treatment time, interior local treatments are not required.

This treatment method is designed to be non-invasive to the interior of the structure by applying a continuous treatment along the exterior of the foundation and treating interior areas that show termite activity. It may not be considered a conventional complete treatment. If you have questions regarding this treatment, consult your lead state agency.

Termite activity is defined as one or more of the following infestation conditions:

- Alates (winged termites) have swarmed in the interior of the structure or live termites are found to be active within the structure.
- There is clear evidence of termite activity on or in the structure (e.g., mud tubes, galleries in wood) and live termites.

**DO NOT** apply **Termidor HE** finished dilution as an EP/LI treatment at an application volume or rate less than specified within the **Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments** section of this label.

### Exterior Perimeter Treatment

When conducting an exterior perimeter application, **Termidor HE** finished dilution must be applied to provide a continuous treatment zone to prevent termites from infesting the structure. All drill holes in commonly occupied areas

into which **Termidor® H-E High-Efficiency Termiticide** finished dilution has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

When trenching, trenches must be a minimum of 2 inches deep (no deeper than the bottom of the footing) and need not be wider than 4 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent **Termidor HE** finished dilution from running out of the trench. Mix the finished dilution with the soil as it is replaced in the trench.

Where physical obstructions (e.g., concrete walkways adjacent to foundation elements) prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used with rod holes no wider than 18 inches apart. Drilling and sub-slab injection treatment of sub-soil is necessary for exterior concrete structures adjoining the foundation (e.g., patios, porches, sidewalks) to complete the exterior perimeter treatment zone. For driveways, exterior drilling is necessary only around building supports or wall elements that are permanently and physically located at driveway joints. **DO NOT** treat a structure below the bottom of the footing.

### **Concrete Slab on Ground (including Monolithic/Floating/Supported Concrete Slabs)**

Apply along the exterior foundation perimeter by trenching and rodding into the trench or trenching alone at the rate of 2 gallons 0.125% **Termidor HE** finished dilution per 10 linear feet per foot of depth. Rod holes must be spaced to achieve a continuous treatment zone but no wider than 18 inches apart. **DO NOT** treat a structure below the bottom of the footing.

### **Basement and Inaccessible Crawl Space Construction**

For basements, apply along the exterior foundation perimeter by trenching and rodding into the trench or trenching alone at the rate of 2 gallons 0.125% **Termidor HE** finished dilution per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. Rod holes must be spaced to achieve a continuous treatment zone but no wider than 18 inches apart. **DO NOT** treat a structure below the bottom of the footing.

If termite activity is found on the interior of an inaccessible crawl space, the area with termite activity must be treated at a rate of 1 to 1.5 gallons of 0.06% or 0.125% **Termidor HE** finished dilution per 10 square feet. A localized interior treatment must be made at the site of the termite activity and at least 2 feet in both directions from the termite activity. Choose the appropriate application technique for treating inaccessible crawl space construction from the techniques listed earlier in the

### **Post-construction Conventional Structural Termite**

**Treatments** section of this label. When the top of the footing is exposed, the applicator must treat soil adjacent to the footing to a depth not to exceed the bottom of the footing.

### **Accessible Crawl Spaces**

**NOTE: Before treatment turn off any air circulation system that moves air from areas to be treated to an untreated interior space of the structure until application has been completed and all Termidor HE finished dilution has been absorbed by the soil.**

For accessible crawl spaces, apply vertical treatments of 0.125% **Termidor HE** finished dilution at the rate of 2 gallons per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 2 feet below grade, to a minimum depth of 2 feet. Treat the exterior of the foundation and around all piers and pipes where they touch the soil. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, make treatment by rodding alone. When soil type and/or conditions make trenching prohibitive, use rodding. When the top of the footing is exposed, the applicator must treat soil adjacent to the footing to a depth not to exceed the bottom of the footing.

- **DO NOT** treat a structure below the bottom of the footing. When rodding from grade or from the bottom of the trench, rod holes must be spaced no wider than 18 inches apart and not extend below the bottom of the footing.

### **Garages**

Attached garage floors should be treated in structures.

**Sub-slab Injection.** Sub-slab injection treatments using a 0.125% **Termidor HE** finished dilution can be made from the interior of the garage or in cases where this not possible by drilling through the foundation from the exterior as follows:

- **Vertical Drilling/Injection** - To treat under the slab, drill vertically through the slab along the interior perimeter of the garage foundation. Drill holes can be placed along concrete expansion joints, cracks, plumbing, and utility services penetrating the slab. If there is termite activity or damage in the wall, it may be necessary to drill holes along one side of the slab adjacent to an interior partition wall. All drill holes through the slab must be spaced no wider than 18 inches apart. Inject 0.125% **Termidor HE** finished dilution through the holes drilled through the slab at the rate of 2 gallons per 10 linear feet per foot of depth. For best results, make applications with a lateral-dispersal nozzle.
- **Horizontal Drilling/Rodding/Sub-slab Injection from the Exterior of the Garage Foundation** - Use this technique to treat underneath the slab only when floors or interior design elements do not allow for vertical drilling. Horizontal short-rodding practices can be used to establish a continuous treated zone in the soil closest to the interior of the foundation wall. Drill holes from exterior of the foundation at an angle which allows **Termidor HE**



finished dilution to be deposited below heating ducts, water/sewer lines, and electrical conduits, if present. Horizontal long-rodming practices may only be employed to treat areas underneath the slab not accessible by vertical rodming or horizontal short-rodming. **DO NOT** use long rods exceeding 20 feet. For horizontal rodming applications, drill holes through the foundation must be spaced no wider than 18 inches apart. Inject a 0.125% **Termidor® H-E High-Efficiency Termiticide** finished dilution into the holes at the rate of 2 gallons per 10 linear feet per foot of depth. These applications can be made with a lateral-dispersal nozzle.

## Localized Interior Treatment

Targeted interior applications may be made to vulnerable areas such as around plumbing/utility lines penetrating floors, shower pan drain, bath traps, or along expansion joints or settlement cracks. However, if known termite activity exists (as described at the beginning of the **Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments** section of this label) in areas on the interior of the structure's living spaces (i.e., occupied areas of the structure) or non-living spaces (e.g., crawl spaces, plenums), a localized interior treatment must be made at the site of termite activity and at least 2 feet in two or more directions radiating from the site. All drill holes in commonly occupied areas into which **Termidor HE** finished dilution has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

**NOTE:** In conjunction with **Termidor HE** finished dilution localized interior treatments, **Termidor® DRY termiticide (EPA Reg. No. 499-546)** or **Termidor® DRY California termiticide (EPA Reg. No. 499-546)** may be applied to areas where termite damage is observed or where termite activity is present or suspected. **Termidor DRY** and **Termidor DRY California** may only be applied in accordance with their approved label directions.

## Interior Concrete Floor

If termite activity occurs in an interior wall or structural member, the area under the floor and behind the wall adjacent to the termite activity must be treated with a 0.125% **Termidor HE** finished dilution at a rate equal to 2 gallons per 10 linear feet. Foam can be used to maximize dispersion.

## Hollow Block Foundations/Voids

If termite activity occurs in or in the vicinity (within 2 feet) of hollow block foundations or voids in masonry resting atop footings, the wall adjacent to the termite activity must be drilled if not openly accessible. Inject a 0.125% **Termidor HE** finished dilution into the void at a rate of 2 gallons per 10 linear feet of footing using a nozzle pressure of 25 PSI or less. This localized interior treatment to hollow block must be made at the site of the termite activity and to areas above the termite activity. Treatment must be made at least 2 feet in two or more directions radiating from the site of termite activity or along the wall pier or

support post. Foam can be used to maximize dispersion. When using this treatment, drill access holes below the sill plate and as close to the footing as is practical. Applicators must inspect areas of possible runoff (e.g., voids and blocks, rubble foundation walls) as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration before treatment.

## Shower Pan Drains

If termite activity is observed within two feet of a shower pan drain, soil beneath and adjacent to the shower pan drain must be treated. Drill through the slab adjacent to the shower pan drain and apply a 0.125% **Termidor HE** finished dilution by sub-slab injection to the soil below. Foam can be used to maximize dispersion. Multiple access points may be drilled adjacent to the shower pan drain. A directional dispersion tip may be used to enhance treatment of the soil below the shower pan drain. Treat soil with a minimum of 1 gallon, but no more than 4 gallons, of **Termidor HE** finished dilution per shower pan drain. Horizontal rodming can be used to access and treat the soil associated with the shower pan drain.

## Bath Traps

If termite activity is observed within 2 feet of the bath trap, treat exposed soil or soil covered with tar or similar sealant beneath or around plumbing and/or drain pipe entry areas. Tar or sealant may have to be removed to allow for adequate soil treatment. An access door or inspection portal may be installed if not already present. After inspection and removal of all wood/cellulose debris, soil can be treated by rodming or drenching the soil with 0.125% **Termidor HE** finished dilution at the rate of 1 to 2 gallons per square foot.

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## Foam Applications

---

Construction practices, soil subsidence, and other factors may make it difficult to create a continuous treatment zone. In such situations, conventional liquid application methods can be supplemented by use of foam-generating equipment. Treatment of filled stoops and porches, chimney bases, piers, soil under concrete slabs, block voids, masonry and other veneer voids, and stud walls are examples where foam applications can be useful. Use dry foam (from a range of relatively dry foam of 15:1 to 25:1 to 50:1 expansion ratio) when making foam applications to wall voids in stud walls. Apply foam to wall voids where termites or termite damage are present or suspected.

In most instances, a **foam-only treatment** under slabs is appropriate when trying to maximize horizontal coverage in areas where there is no deep foundation or footing (e.g., around plumbing entries, near settlement cracks in concrete slabs). In areas where both lateral spread and deeper vertical penetration is needed, use both foam and conventional liquid (e.g., adjacent to foundation walls). Foam and conventional liquid applications must be consistent with volume and active ingredient instructions to ensure proper application has been made. The volume and



amount of active ingredient are essential for an effective treatment.

- At least 75% of the gallons of **Termidor® H-E High-Efficiency Termiticide** finished dilution must be applied as a conventional liquid treatment.
- The remaining 25% or less of the gallons of **Termidor HE** is delivered to appropriate locations using foam application.

The total amount of product applied with the combination of **Termidor HE** finished dilution and **Termidor HE** foam must be equivalent to that of an application of liquid **Termidor HE** finished dilution only. In many instances, foam applications are a good supplement to conventional liquid treatments and can be helpful in treating difficult areas.

**Foam Mixing Instructions and Application**

Prepare the 0.125% **Termidor HE** finished dilution and mix it with the manufacturer’s recommended volume of foaming agent in foaming equipment. Apply a sufficient volume of the **Termidor HE** foam formulation to provide a continuous treated zone at the labeled rate for specific application situation (refer to rates provided for the various treatment types listed in this label). If sufficient foam volume cannot be applied to achieve the rate, apply additional **Termidor HE** as liquid to assure proper treatment volume in the treated area.

**(Table 4.) Termidor HE Foam Mixing Directions**

| 0.125%† <b>Termidor HE</b><br>Finished Dilution<br>(gals) | Foam<br>Expansion<br>Ratio†† | Finished<br>Foam<br>(gals) |
|-----------------------------------------------------------|------------------------------|----------------------------|
| 1.0                                                       | 25:1                         | 25                         |
| 1.75                                                      | 15:1                         |                            |
| 2.5                                                       | 10:1                         |                            |
| 5.0                                                       | 5:1                          |                            |

† Percentage weight of active ingredient to weight of finished dilution.  
†† Add the manufacturer’s recommended quantity of foam agent to the **Termidor HE** finished dilution.

**Retreatment Instructions**

For all application types listed on this label (e.g., pre-construction: horizontal and vertical; post-construction: conventional and EP/LI), retreatment for termites can only be performed if there is clear evidence of any of the following:

- Reinfestation or disruption of the treated zone(s) because of construction, excavation, or landscaping; and/or
- Evidence of the breakdown of the termiticide treated zone in the soil.

These reinfested/disrupted/vulnerable areas may be retreated using spot, partial or complete treatment(s) using application techniques described in this label. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions, and other factors that can reduce the effectiveness of the treated zone.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation, treatment zone disruption, and/or evidence of breakdown has occurred.

**Use with Other Termiticide Products**

**Use with Borate-based Termiticide Products**

When a borate-based termiticide product is used as the primary pre-construction termite treatment and is applied according to that termiticide’s label directions for use, a 0.125% **Termidor HE** finished dilution may be applied as an exterior perimeter pre-construction termite treatment. If the exterior perimeter pre-construction termite treatment option is selected, **Termidor HE** finished dilution must be applied to create a continuous treated zone along the exterior foundation of the structure. A complete and thorough horizontal pre-construction termite treatment with **Termidor HE** finished dilution under the concrete slab is optional. **Termidor HE** finished dilution may also be applied to critical areas of the interior of the structure (e.g., plumbing and utility entry sites, bath traps, shower pan drain penetrations, expansion joints, foundation cracks, outside foundation walls, areas of known or suspected termite activity).

For applications to the exterior perimeter and critical areas, follow the instructions in the **Post-construction Exterior Perimeter/Localized Interior (EP/LI) Structural Termite Treatments** section of this label.

**Use with Non-borate-based Termiticide Products**

**Termidor HE** finished dilution may be applied as a spot/partial supplemental termite treatment when another registered non-borate-based termite prevention and/or control product/system is used as the primary treatment. These supplemental **Termidor HE** treatments can be made to critical areas of the structure (e.g., plumbing and utility entry sites, bath traps, shower pan drain penetrations, expansion joints, foundation cracks, outside foundation walls, areas of known or suspected termite activity at either pre-construction or post-construction sites).

**Posts, Poles, Wood Landscape Ornamentation**

**DO NOT contaminate wells or cisterns.**

**Treatment at Time of Installation**

Apply 2 gallons of 0.125% **Termidor HE** finished dilution per 10 linear feet per foot of depth to create a continuous treatment zone in the soil around wooden posts, poles, fence posts, signs, or landscape ornamentation. Place the **Termidor HE** finished dilution application at a depth of 6 inches below the bottom of the posts, poles, or other wooden items in contact with the soil. For treatments made during installation, apply the finished dilution to soil as it is replaced around the post or pole.

## Treatment to Previous Installations

To treat previously installed poles, posts, landscape ornamentation, or signs, apply **Termidor® H•E**

**High-Efficiency Termiticide** finished dilution by sub-surface injection or treatment by gravity flow through holes made from the bottom of a trench around the pole or post. When trenching, the trench must be a minimum of 2 inches deep and need not be wider than 4 inches. When subsurface injecting, treat all sides of the wooden item to create a continuous treatment zone. Apply to a depth of 2 inches below the bottom of the wood item.

---

## Termites Above Ground

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### **DO NOT TREAT EDIBLE FRUIT-BEARING OR NUT-BEARING TREES.**

For control of above-ground termites, termite aerial colonies, or drywood termites in localized areas of wood structures, apply a 0.125% **Termidor HE** finished dilution to areas of wooden members or void spaces. Application may be made to inaccessible areas by drilling and then injecting **Termidor HE** finished dilution with a crack-and-crevice injector into the damaged wood member or void spaces. **Termidor HE** finished dilution foam applications may be made to void spaces.

Likewise, termite nests in trees or building voids may be injected with **Termidor HE** finished dilution using a pointed injection tool. Multiple injection points to varying depths may be necessary. Carton nests may be physically removed from building voids after treatment.

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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## NOTICE TO BUYER

Purchase of this material does not confer any rights under BASF's patents relating to this product. **Termidor® termiticide** is specially formulated and sold by BASF for the control of termites according to the directions on this label. The purchaser agrees to employ the purchased quantity of **Termidor® termiticide** only for the specified uses. Uses of **Termidor® termiticide** other than those specified on this label are not licensed through the purchase of this product. The use of this product for other purposes may violate patent rights of BASF. The purchaser assumes all risks as to the patents of others.

***Termidor** and the  symbol are registered trademarks of BASF.*

***Raindrop** is a registered trademark of Delavan Corporation.*

***Teejet** is a registered trademark of Spraying Systems Co.*

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BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

  
We create chemistry

# Safety Data Sheet

## TERMIDOR HE HIGH EFFICIENCY TERMITICIDE

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### 1. Identification

Product identifier used on the label

**TERMIDOR HE HIGH EFFICIENCY TERMITICIDE**

Recommended use of the chemical and restriction on use

Recommended use\*: insecticide

\* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 679292

### 2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

|            |                       |                                                    |
|------------|-----------------------|----------------------------------------------------|
| Acute Tox. | 4 (oral)              | Acute toxicity                                     |
| Acute Tox. | 4 (Inhalation - mist) | Acute toxicity                                     |
| STOT RE    | 2                     | Specific target organ toxicity — repeated exposure |

Label elements

Pictogram:

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Signal Word:  
Warning

Hazard Statement:

|      |                                                                                             |
|------|---------------------------------------------------------------------------------------------|
| H332 | Harmful if inhaled.                                                                         |
| H302 | Harmful if swallowed.                                                                       |
| H373 | May cause damage to organs (Central nervous system) through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                                                 |
| H410 | Very toxic to aquatic life with long lasting effects.                                       |

Precautionary Statements (Prevention):

|      |                                                               |
|------|---------------------------------------------------------------|
| P271 | Use only outdoors or in a well-ventilated area.               |
| P273 | Avoid release to the environment.                             |
| P260 | Do not breathe dust/gas/mist/vapours.                         |
| P270 | Do not eat, drink or smoke when using this product.           |
| P264 | Wash with plenty of water and soap thoroughly after handling. |

Precautionary Statements (Response):

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| P311        | Call a POISON CENTER or doctor/physician.                                  |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P301 + P330 | IF SWALLOWED: rinse mouth.                                                 |
| P391        | Collect spillage.                                                          |

Precautionary Statements (Disposal):

|      |                                                                               |
|------|-------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
|------|-------------------------------------------------------------------------------|

### Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 7 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 1 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 11 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 11 % Inhalation - mist

### 3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

|                   |                      |                      |
|-------------------|----------------------|----------------------|
| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
| 120068-37-3       | 8.73 %               | Fipronil             |

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### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

#### Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

---

### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

#### Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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### 6. Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures**

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

#### **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

#### **Methods and material for containment and cleaning up**

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

---

### 7. Handling and Storage

#### **Precautions for safe handling**

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Protect contents from the effects of light. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

#### **Conditions for safe storage, including any incompatibilities**

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

---

### 8. Exposure Controls/Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

#### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

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### Personal protective equipment

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

##### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

##### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

##### **General safety and hygiene measures:**

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## **9. Physical and Chemical Properties**

|                        |                     |                                                                                                                                                                                                        |
|------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form:                  | suspension          |                                                                                                                                                                                                        |
| Odour:                 | faint odour, fruity |                                                                                                                                                                                                        |
| Odour threshold:       |                     | Not determined since harmful by inhalation.                                                                                                                                                            |
| Colour:                | off-white           |                                                                                                                                                                                                        |
| pH value:              | approx. 6.5 - 7.5   | ( 20 °C)                                                                                                                                                                                               |
| Melting point:         | approx. 0 °C        | Information applies to the solvent.                                                                                                                                                                    |
| Boiling point:         | approx. 100 °C      | Information applies to the solvent.                                                                                                                                                                    |
| Flash point:           |                     | No flash point - Measurement made up to the boiling point.                                                                                                                                             |
| Flammability:          | not applicable      |                                                                                                                                                                                                        |
| Lower explosion limit: |                     | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Upper explosion limit: |                     | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Autoignition:          | 435 °C              |                                                                                                                                                                                                        |



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|                                                     |                                                                                                   |          |                                     |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------|
| Vapour pressure:                                    | approx. 23.4 hPa                                                                                  | ( 20 °C) | Information applies to the solvent. |
| Density:                                            | approx. 1.1 g/cm <sup>3</sup>                                                                     | ( 20 °C) |                                     |
| Vapour density:                                     |                                                                                                   |          | not applicable                      |
| Partitioning coefficient n-octanol/water (log Pow): |                                                                                                   |          | not applicable                      |
| Thermal decomposition:                              | No decomposition if stored and handled as prescribed/indicated.                                   |          |                                     |
| Viscosity, dynamic:                                 | approx. 241 mPa.s                                                                                 | ( 20 °C) |                                     |
| Solubility in water:                                |                                                                                                   |          | dispersible                         |
| Evaporation rate:                                   |                                                                                                   |          | not applicable                      |
| Other Information:                                  | If necessary, information on other physical and chemical parameters is indicated in this section. |          |                                     |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:  
not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity

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Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Oral

Type of value: LD50

Species: rat

Value: > 500 - < 2,000 mg/kg

### Inhalation

Type of value: LC50

Species: rat (male)

Value: > 2.73 mg/l

Exposure time: 4 h

An aerosol with respiratory particles was tested.

### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 2,000 mg/kg

### Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Skin

Species: rabbit

Result: non-irritant

### Eye

Species: rabbit

Result: non-irritant

### Sensitization

Assessment of sensitization: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

### Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: Skin sensitizing effects were not observed in animal studies.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

### *Information on: Fipronil*

*Assessment of repeated dose toxicity: Causes mortality and signs of neurotoxicity through prolonged or repeated exposure.*

-----

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

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### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

### *Information on: Fipronil*

*Assessment of carcinogenicity: In long-term studies in rats the substance induced thyroid tumors. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.*

-----

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### Other Information

Misuse can be harmful to health.

## **Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

---

## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Toxicity to fish

##### *Information on: Fipronil*

*LC50 (96 h) 0.0852 mg/l, *Lepomis macrochirus**

-----

#### Aquatic invertebrates

##### *Information on: Fipronil*

*EC50 (48 h) 0.19 mg/l, *Daphnia magna**

*LC50 (10 d) 0.00043 mg/l, aquatic arthropod*

-----

#### Aquatic plants

##### *Information on: Fipronil*

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*EC50 (96 h) 0.068 mg/l (biomass), Scenedesmus subspicatus*  
-----

### Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment biodegradation and elimination (H2O)

*Information on: Fipronil*

*Not readily biodegradable (by OECD criteria).*  
-----

### Bioaccumulative potential

#### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Bioaccumulation potential

*Information on: Fipronil*

*Bioconcentration factor: 321, Lepomis macrochirus*  
*Accumulation in organisms is not to be expected.*  
-----

### Mobility in soil

#### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Fipronil*

*Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*  
-----

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

---

## 13. Disposal considerations

### **Waste disposal of substance:**

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

# Safety Data Sheet

## TERMIDOR HE HIGH EFFICIENCY TERMITICIDE

Revision date : 2014/10/01

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(30629254/SDS\_CPA\_US/EN)

### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL)

### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL)

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Chronic;

### State regulations

#### CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Labeling requirements under FIFRA

# Safety Data Sheet

## TERMIDOR HE HIGH EFFICIENCY TERMITICIDE

Revision date : 2014/10/01

Version: 1.0

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(30629254/SDS\_CPA\_US/EN)

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

### CAUTION:

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED.

HARMFUL IF ABSORBED THROUGH SKIN.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapours/mists.

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2014/10/01

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

# TERMIDOR® SC

## TERMITICIDE/INSECTICIDE

For use only by individuals/firms licensed or registered by  
the state to apply termiticide products.

### ACTIVE INGREDIENTS:

Fipronil: 5-amino-1-(2,6-dichloro-4-(trifluoromethyl)  
phenyl)-4-((1R,S)-(trifluoromethyl)sulfinyl)  
-1-H-pyrazole-3-carbonitrile ..... 9.1%

INERT INGREDIENTS: ..... 90.9%

TOTAL ..... 100.0%

EPA Reg. No. 7969-210

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN.

### CAUTION/¡PRECAUCIÓN!

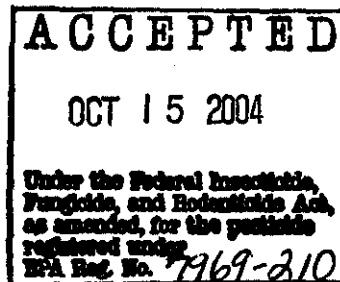
Si usted no entiende la etiqueta, busque a alguien para  
que se la explique a usted en detalle. (If you do not  
understand the label, find someone to explain it to you  
in detail.)

See inside for additional  
First Aid, Precautionary Statements and Directions for Use.

For Additional Product Information, Visit  
[www.pestcontrolfacts.com](http://www.pestcontrolfacts.com)

FOR MEDICAL AND TRANSPORTATION  
EMERGENCIES ONLY CALL 24 HOURS A DAY  
1-800-832-HELP (4357).

NET CONTENTS: \_\_\_\_\_



TERMIDOR®

**BASF**

The Chemical Company

BASF Corporation  
Agricultural Products  
26 Davis Drive, Research Triangle Park, NC 27709

© 2004 BASF Corporation

**FIRST AID**

|                               |                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF SWALLOWED</b>           | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to unconscious person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING</b> | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                                                                                 |
| <b>IF INHALED</b>             | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                          |
| <b>IF IN EYES</b>             | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                          |

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:** There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur.

**PRECAUTIONARY STATEMENTS**

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION**

Harmful if swallowed, absorbed through skin or inhaled. Causes eye irritation. Do not get in eyes, on skin or on clothing. Do not breathe spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. All pesticide handlers must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) when working in a non-ventilated space, including but not limited to crawl-spaces and basements. All pesticide handlers must wear protective eyewear (goggles, a faceshield, or safety glasses with front, brow, and temple protection) when working in a non-ventilated space, including but not limited to crawl-spaces and basements or when applying termiticide by rodding or sub-slab injection.

**USER SAFETY RECOMMENDATIONS**

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove contaminated clothing. Then wash body thoroughly with soap and water and put on clean clothing. Wash clothing with detergent and hot water before reusing.

Remove PPE immediately after handling this product. Wash outside of gloves before removing. Wash PPE before reusing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds, fish, and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care must be taken to avoid runoff. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read entire label before using this product.

For use by individuals/firms licensed or registered by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE**

Store unused product in original container only, out of reach of children and animals.

**PESTICIDE DISPOSAL**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

In case of minor spills or leaks, soak up with sand, earth or other suitable material and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

**CONTAINER DISPOSAL**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state or local authorities, by burning. If burned, stay out of smoke.

**GENERAL PRECAUTIONS**

- When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediate adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leak-



age. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is completed.

- Do not apply **Termidor SC** in a way that will contact any other person. Only protected applicators wearing personal protective equipment as required by this product label may be in the area during application.
- All holes in commonly occupied areas into which **Termidor SC** has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.
- Do not apply finished solution of **Termidor SC** until all heating/air conditioning ducts, air vents, plumbing pipes, sewer lines, floor drains, heating pipes and electrical lines/conduits are known and identified. Do not puncture or contaminate any of these.
- Do not treat around any edible plants with **Termidor SC** used for termite control.
- Do not contaminate public and private water supplies.
- Do not treat while precipitation is occurring.
- Do not treat soil that is water-saturated or frozen.
- Use anti-backflow equipment on all filling hoses.
- Do not use in tanks with borate contaminants.

### General Information

In order to maximize the termiticide potency of **Termidor SC**, it should be applied in a manner to provide a continuous treated zone to prevent termites from attacking the wood to be protected. **Termidor SC** should only be applied by licensed technicians familiar with trenching, rodding, short rodding, subslab injection, low-pressure banded surface applications, and foam delivery techniques. **Termidor SC** is highly effective against a variety of subterranean termites including species of *Reticulitermes*, *Zootermopsis*, *Heterotermes*, and *Coptotermes*. While **Termidor SC** is labeled for use at 0.06%, 0.09% or 0.125% finished solution, the 0.06% finished solution should be used for typical control situations. Where severe termite infestations occur, where problem soils occur or where difficult or problem construction types are encountered, it may be necessary to use either 0.09% or 0.125% **Termidor SC**.

**Termidor SC** is formulated as a water soluble concentrate liquid containing 9.1% active ingredient.

### MIXING INSTRUCTIONS

Mix **Termidor SC** in the following manner:

1. Fill tank 1/4 to 1/3 full with water. Filling hose must be equipped with an anti-backflow device.
2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of **Termidor SC**. Refer to the table in the box below to determine the proper amount to add to desired gallons of water.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2 to 3 minutes or longer, until **Termidor SC** in the tank has dissolved completely.

| To Mix 0.06% Desired Finished Solution of Termidor SC | Start with (gallons of water) | Add (ounces of Termidor SC) |
|-------------------------------------------------------|-------------------------------|-----------------------------|
| 100 gallons finished solution                         | 99.25                         | 78 oz. (or 2 qt. + 14 oz.)  |
| 50 gallons finished solution                          | 49.75                         | 39 oz. (or 1 qt. + 7 oz.)   |
| 25 gallons finished solution                          | 24.75                         | 19 oz. (or 1 pt. + 3 oz.)   |
| 1 gallon of finished solution                         | 1                             | 0.8 oz                      |

| To Mix 0.09% Desired Finished Solution of Termidor SC | Start with (gallons of water) | Add (ounces of Termidor SC) |
|-------------------------------------------------------|-------------------------------|-----------------------------|
| 100 gallons finished solution                         | 99                            | 117 oz. (or 3 qt. + 21 oz.) |
| 50 gallons finished solution                          | 49.75                         | 59 oz. (or 1 qt. + 27 oz.)  |
| 25 gallons finished solution                          | 24.75                         | 29 oz. (or 1 pt. + 13 oz.)  |
| 1 gallon of finished solution                         | 1                             | 1.2 oz.                     |

| To Mix 0.125% Desired Finished Solution of Termidor SC | Start with (gallons of water) | Add (ounces of Termidor SC)  |
|--------------------------------------------------------|-------------------------------|------------------------------|
| 100 gallons finished solution                          | 98                            | 156 oz. (or 1 gal. + 28 oz.) |
| 50 gallons finished solution                           | 49.75                         | 78 oz. (or 2 qt. + 14 oz.)   |
| 25 gallons finished solution                           | 24.75                         | 39 oz. (or 1 qt. + 7 oz.)    |
| 1 gallon of finished solution                          | 1                             | 1.6 oz                       |

### APPLICATION VOLUME

To provide maximum control and protection against termite infestation, apply the volumes of **Termidor SC** finished solution specified in the **DIRECTIONS FOR USE** throughout this label. However, if the soil will not accept these labeled volumes of **Termidor SC**, twice the concentration of **Termidor SC** may be applied in half the volume of finished solution. For example, if 0.06% **Termidor SC** cannot be applied to achieve 4 gallons finished solution per 10 linear feet per foot of depth, then 0.125% **Termidor SC** applied in 2 gallons finished solution per 10 linear feet per foot of depth may be substituted. These **APPLICATION VOLUME** instructions do not ever apply to ground that is water-saturated or frozen. Do not treat while precipitation is occurring. Do not treat soil that is water-saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur.

**NOTE:** Large reductions of application volume reduce the ability to obtain a continuous treated zone. Variance is allowed when volume and concentration are consistent with label-directed rates and a continuous treated zone is still achieved. At reduced application volume, it may be necessary for the applicator to drill holes closer than 12 inches apart to create a continuous treated zone.

### POST-CONSTRUCTION CONVENTIONAL STRUCTURAL TERMITE TREATMENT

#### GENERAL

For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at either 0.06%, 0.09% or 0.125% **Termidor SC** from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls, at either 0.06%, 0.09% or 0.125% **Termidor SC**, to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Do not apply finished solution (0.06%, 0.09% or 0.125% **Termidor SC**) until the location and type of (1) construction of heat or air-conditioning ducts and vents, (2) water and sewer (or plumbing) lines and (3) electrical lines/conduits are known and identified. Caution must be taken to avoid contamination of and damage to these structural elements and airways.

### CONCRETE SLAB OVER SOIL (INCLUDING MONOLITHIC, FLOATING AND SUPPORTED CONCRETE SLABS)

#### EXTERIOR PERIMETER

Apply by trenching and rodding into the trench or trenching around the foundation at the rate of 4 gallons finished solution (0.06%, 0.09% or

0.125% **Termidor SC**) per 10 linear feet per foot of depth, or, if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Trenches must be a minimum of 6 inches deep or to the bottom of the footing and need not be wider than 6 inches. The finished solution (0.06%, 0.09% or 0.125% **Termidor SC**) should be mixed with the soil as it is replaced in the trench. Rod holes must be spaced so as to achieve a continuous treated zone but in no case more than 12 inches apart. However, in no case should the structure be treated below the footing.

#### SUB-SLAB INJECTION

Sub-slab injection treatments can be made from inside the structure or in cases when this is not possible, by drilling through the foundation from the outside as directed below. Prior to making any treatments, locate all heating/air conditioning ducts, vents, water/sewer lines, and electrical lines/conduits.

**Vertical Drilling/Injection:** To treat under the slab, drill vertically through the slab along the interior perimeter of the foundation including the garage. Drill holes along all concrete expansion joints, cracks, plumbing, and utility services penetrating the slab. It may be necessary to drill holes along one side of the slab adjacent to an interior partition wall if there is clear evidence of termite activity or damage in the wall. All drill-holes through the slab should be spaced so as to achieve a continuous treated zone but in no case be more than 12 inches apart. Inject a 0.06%, 0.09% or 0.125% solution of **Termidor SC** into the drilled holes at the rate of 4 gallons per 10 linear feet per foot of depth. For best results, application should be made with a lateral dispersal nozzle. All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

**Horizontal Drilling/Rodding/Sub-slab Injection from the Exterior of the Foundation:** This technique should be used to treat underneath the slab only when floors or interior design do not allow for vertical drilling. Care must be exercised not to rod into heating ducts, water/sewer lines, and electrical lines/conduits. Horizontal short-rod practices can be used to establish a continuous treated zone along the inside perimeter of the foundation. Holes should be drilled from outside the foundation at an angle which allows a finished solution (0.06%, 0.09% or 0.125%) of **Termidor SC** to be deposited below heating ducts, water/sewer lines, and electrical conduits if present. Horizontal long rodding practices may only be employed to treat areas underneath the slab that are not accessible by vertical rodding or horizontal short rodding. Long rods exceeding 20 feet should not be used. For all horizontal rodding applications, all drill holes through the foundation should be spaced so as to achieve a continuous treated zone but in no case be more than 12 inches apart. Inject a 0.06%, 0.09% or 0.125% solution of **Termidor SC** into the drilled holes at the rate of 4 gallons per 10 linear feet per foot of depth. For best results, make applications with a lateral dispersal nozzle. All holes must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

**Bath Traps:** Exposed soil or soil covered with tar or similar sealant beneath or around plumbing and/or drain pipe entry areas should be treated with a minimum of 1 gallon but no more than 4 gallons of finished solution per square foot. An access door or inspection vent should be cut and installed, if not already present. After inspection and removal of all wood/cellulose debris, the soil can be treated by rodding or drenching the soil with a 0.06%, 0.09% or 0.125% solution of **Termidor SC**.

#### STRUCTURES WITH FRENCH DRAINS AND SUMP PUMPS

French drains eliminate water at the footer along a foundation perimeter. They are common in hollow block foundation structures to drain water seeping from the exterior perimeter or underneath the foundation. Soil must be dry before applying to sites with French drains. Do not treat soil that is saturated or frozen. Do not apply when precipitation is likely to occur. Do not rod through the slab any closer than 24 inches to the French drain to prevent finished solution seepage and/or damage to the drain or the tiles. Do not apply **Termidor SC** within 5 feet of the sump pump pit and pump. Do not drill through hollow block foundations that border the French drain in order to prevent drainage/seepage from the block into the drain.

Once French drains have been identified and located, apply **Termidor SC** as follows:

- 1) Unplug the sump pump. Inspect sump pit for water. If no water is present, the treatment can be made provided the sump pump remains unplugged, or
- 2) if water is in the sump pit, unplug the sump pump and remove four cups of water from the pit. Mark the water level. Wait 10 minutes and check the water level in the pit again. If the water level has risen, there is too much seepage to perform the treatment at this time. If the water level does not rise, make the treatment provided the sump pump remains unplugged.

During application, check the sump pump pit every few minutes for the presence of termiticide solution. If solution is detected, stop treatment immediately and remove solution from the pump pit. All solution must be removed from the sump pump pit before plugging in the sump pump again. Dispose of solution from the sump pump as directed by this label in the **PESTICIDES DISPOSAL** section.

#### BASEMENT STRUCTURES

##### EXTERIOR PERIMETER

Apply by trenching and rodding into the trench or trenching around the foundation at the rate of 4 gallons finished solution (0.06%, 0.09% or 0.125% solution of **Termidor SC**) per 10 linear feet per foot of depth, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Trenches must be a minimum of 6 inches deep or to the bottom of the footing and need not be wider than 6 inches. When trenching in sloping tiered soil, the trench must be stepped to ensure adequate distribution and to prevent **Termidor SC** from running out of the trench. The finished solution (0.06%, 0.09% or 0.125% of **Termidor SC**) should be mixed with the soil as it is replaced in the trench. Rod holes must be spaced so as to achieve a continuous treated zone but in no case more than 12 inches apart. However, in no case should the structure be treated below the footing.

##### INSIDE PERIMETER

To treat under the basement floor slab, drill vertically through the slab along the interior perimeter of the foundation. Drill holes along all concrete expansion joints, cracks, plumbing, and utility services penetrating the slab. Drill holes along both sides of partition foundation walls, and around piers. It may be necessary to drill holes along one side of the slab adjacent to a non-foundation interior partition wall if there is clear evidence of termite activity in the wall. All drill holes through the slab should be spaced so as to achieve a continuous treated zone but in no case be more than 12 inches apart. Inject a 0.06%, 0.09% or 0.125% solution of **Termidor SC** into the drilled holes at the rate of 4 gallons per 10 linear feet per foot of depth. For best results, application should be made with a lateral dispersal nozzle. All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

#### ACCESSIBLE CRAWL SPACE CONSTRUCTION

**BEFORE TREATMENT:** Turn off the air circulation system of the structure until application has been completed and all **Termidor SC** has been absorbed by the soil.

For crawl spaces, apply vertical termiticide treatment at the rate of 4 gallons of 0.06%, 0.09% or 0.125% **Termidor SC** per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of the foundation and around all piers and pipes. Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow mixing and use directions on this label if situations are encountered where the soil will not accept the full application volume.

- Rod holes and trenches must not extend below the bottom of the footing.
- Rod holes must be spaced so as to achieve a continuous treated zone but in no case more than 12 inches apart.
- Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When

trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The 0.06%, 0.09% or 0.125% **Termidor SC** solution must be mixed with the soil as it is replaced in the trench.

### INACCESSIBLE CRAWL SPACE CONSTRUCTION

**BEFORE TREATMENT:** Turn off the air circulation system of the structure until application has been completed and all **Termidor SC** has been absorbed by the soil.

For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate, if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one, or a combination of the following two methods:

1. To establish a horizontal treated zone, apply to the soil surface, 1 gallon of 0.06%, 0.09% or 0.125% **Termidor SC** per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop®, RD-7 or larger, or Spraying Systems Co. 801 10LP Teejet® or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or power spray with high pressures.
2. To establish a horizontal treated zone, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of 0.06%, 0.09% or 0.125% **Termidor SC** per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations which may apply.

### HOLLOW BLOCK FOUNDATIONS / VOIDS

Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment zone in the area to be treated. Apply at the rate of 2 gallons of finished solution per 10 linear feet of footing using a nozzle pressure of 25 p.s.i. or less. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of **Termidor SC** in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean up is completed.

**Not for use in voids insulated with rigid foam.**

### TREATMENT OF STRUCTURES WITH WELLS OR CISTERNS

#### Do not contaminate wells or cisterns.

Do not apply **Termidor SC** within 5 feet of any well or cistern by rodding and/or trenching or by the backfill method. Treat soil between 5 and 10 feet from the well or cistern by the backfill method only. Treatment of soil adjacent to water pipes within 3 feet of grade should only be done by the backfill method.

1. Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
2. Treat soil at the rate of 4 gallons of 0.06%, 0.09% or 0.125% **Termidor SC** per 10 linear feet per foot of depth of the trench, or 1 gallon of 0.06%, 0.09% or 0.125% **Termidor SC** per 1.0 cubic foot of soil. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
3. After the treated soil has absorbed the **TERMIDOR SC** finished solution, return the soil into the trench.

### STRUCTURES WITH ADJACENT WELLS/CISTERNS AND/OR OTHER WATER BODIES

Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade. Treatment of soil adjacent to the water pipe(s) should be done according to the backfill technique described above.
2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of **Termidor SC** to the top of the footer may result in contamination of the subsurface and degree of compaction should be taken into account in determining the depth of treatment.
3. When appropriate (e.g., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of **Termidor SC**.

### PLENUM CONSTRUCTION

**BEFORE TREATMENT:** Turn off the air circulation system of the structure until application has been completed and all **Termidor SC** has been absorbed by the soil.

Application of **Termidor SC** to the exterior perimeter of foundation walls should follow the instructions listed above in **ACCESSIBLE CRAWL SPACE CONSTRUCTION**, including instructions for sloping (tiered) soils.

Interior treatment of plenum structures that use a sealed underfloor space to circulate heat and/or cooled air throughout the structure need to follow the instructions below:

1. Remove the sealing fabric and anything on the sealing fabric to expose no more than 18 inches adjacent to all foundation structures, including foundation walls, interior piers, pipes, and any other structures with soil contact. Follow the instructions listed above for exterior and interior treatment of **ACCESSIBLE CRAWL SPACE CONSTRUCTION**.
2. After the finished solution of **Termidor SC** has been absorbed by the soil, replace the sealing fabric and anything to be placed on the sealing fabric to its original, pre-treatment position.

### FOAM APPLICATIONS

Construction practices, soil subsidence, and other factors may create situations where a continuous treated zone cannot be achieved using conventional liquid treatment alone. In such situations, conventional liquid application methods can be supplemented through the use of foam-generating equipment. Treatment of filled stoops and porches, chimney bases, piers, soil under concrete slabs, into block voids, behind masonry, other veneers, and stud walls are examples where foam applications may be useful. Foam applications to wall voids in stud walls must utilize dry foam only (25:1 to 50:1 expansion ratio). Only apply foam to wall voids where termites or termite damage are present.

In general, "foam only" treatment is appropriate when attempting to maximize horizontal coverage in areas where there is no deep foundation or footing (e.g. around plumbing entries, settling under slabs, and near cracks in concrete). In areas where both lateral spread and deeper vertical penetration of the termiticide is needed both foam and conventional liquid should be used (e.g. adjacent to foundation walls). Foam and liquid applications must be consistent with volume and active ingredient instructions in order to ensure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the gallons of the 0.06%, 0.09% or 0.125% **Termidor SC** finished solution must be applied as a typical liquid treatment. The remaining 25% or less gallons is delivered to appropriate locations using a foam application. The total amount of product applied with the combination of foam and liquid finished solution should be equivalent to that of an application of liquid finished solution only. Foam

applications are generally a good supplement to liquid treatments in difficult areas, but may be used in difficult to access spot treatments.

## FOAM MIXING INSTRUCTIONS AND APPLICATION

Prepare the finished solution of **Termidor SC** and mix it with manufacturer's recommended volume of foaming agent in approved foaming equipment. Apply a sufficient volume of **Termidor SC** foam formulation to provide a continuous treated zone at the recommended rate for specific applications (these various rates are provided in the text of this label). If sufficient foam volume cannot be applied to achieve the recommended rate of **Termidor SC** required, apply additional finished solution of **Termidor SC** as liquid to assure proper treatment volume and concentration in the treated area.

## MIXING TABLE FOR TERMIDOR SC FOAM

| Termidor SC Use Dilution    | Gallons of Finished Solution | Foam Expansion Ratio* | Finished Foam (gallons) |
|-----------------------------|------------------------------|-----------------------|-------------------------|
| 0.06%, 0.09% or 0.125% a.i. | 1.0                          | 25:1                  | 25                      |
|                             | 1.66                         | 15:1                  |                         |
|                             | 2.5                          | 10:1                  |                         |
|                             | 5.0                          | 5:1                   |                         |

\* Add the manufacturer's recommended quantity of foam agent to the **Termidor SC** solution.

## POST-CONSTRUCTION EXTERIOR PERIMETER/LOCALIZED INTERIOR (EP/LI) STRUCTURAL TERMITE TREATMENT

### GENERAL INFORMATION

For post-construction applications after the final grade is installed, **Termidor SC** can be used to protect structures by using the Conventional structural treatment or the Exterior Perimeter/Localized Interior structural treatment. Structural termite protection is achieved by first establishing a continuous treated zone around the exterior foundation of the structure. Localized interior treatments are then made to areas where known termite activity is observed. If no termite activity is observed inside the structure at treatment time, then interior local treatments are not required.

This treatment method is designed to be non-invasive to the interior of the structure by applying a continuous treatment around the exterior foundation and only treating the interior areas that show termite activity. It may not be a conventional complete treatment. If you have questions regarding this treatment, consult your lead state agency. **Termidor SC**, when used as recommended in this label, provides effective subterranean termite control.

Termite activity is defined as one or more of the following infestation conditions: either alates (winged termites) have swarmed inside the structure or live termites are found to be active within the structure; or there is clear evidence of termite activity on or in the structure (mud tubes, galleries in wood) and live termites.

DO NOT apply **Termidor SC** as an Exterior Perimeter/Localized Interior treatment at a finished solution concentration lower than 0.06% or an application volume less than that specified in the **APPLICATION VOLUME** use directions section of this label.

### A. EXTERIOR PERIMETER TREATMENT

When conducting an exterior perimeter application, **Termidor SC** must be applied in a manner to provide a continuous treatment zone to prevent termites from infesting the structure. Read and follow **APPLICATION VOLUME** use directions on this label if situations are encountered where the soil will not accept the full application volume recommended in the following use directions.

#### A.1 CONCRETE SLAB ON GROUND (INCLUDING MONOLITHIC, FLOATING AND SUPPORTED CONCRETE SLABS)

Apply around the exterior foundation perimeter by trenching and rodding into the trench or trenching at the rate of 4 gallons finished solution (0.06%,

0.09% or 0.125% **Termidor SC**) per 10 linear feet per foot of depth. Trenches must be a minimum of 6 inches deep, or to the bottom of the footing, and need not be wider than 6 inches. The finished solution must be mixed with the soil as it is replaced in the trench. Rod holes must be spaced so as to achieve a continuous treatment zone but in no case more than 12 inches apart. However, in no case should the structure be treated below the footing.

Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used with rod holes no more than 12 inches apart. Exterior drilling and treatment of sub-soil is necessary for concrete structures adjoining the foundation such as patios, porches and sidewalks, to complete the exterior perimeter treatment zone. For driveways, exterior drilling is necessary only around building supports or wall elements that are permanently and physically located at driveway joints. Rod holes must be spaced so as to achieve a continuous treatment zone and in no case be more than 12 inches apart. However, in no case should the structure be treated below the footing.

### A.2 BASEMENT AND INACCESSIBLE CRAWL SPACE CONSTRUCTION

Apply around the exterior foundation perimeter by trenching and rodding into the trench or trenching at the rate of 4 gallons finished solution (0.06%, 0.09% or 0.125% **Termidor SC**) per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Trenches must be a minimum of 6 inches deep or to the bottom of the footing and need not be wider than 6 inches. When trenching in sloping or tiered soil, the trench must be stepped to ensure adequate distribution and to prevent **Termidor SC** from running out of the trench. The finished solution must be mixed with the soil as it is replaced in the trench. Rod holes must be spaced so as to achieve a continuous treatment zone but in no case more than 12 inches apart. However, in no case should the structure be treated below the footing.

Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used with rod holes no more than 12 inches apart. Exterior drilling and treatment of sub-soil is necessary for concrete structures adjoining the foundation such as patios, porches and sidewalks, to complete the exterior perimeter treatment zone. For driveways, exterior drilling is necessary only around building supports or wall elements that are permanently and physically located at driveway joints. Rod holes must be spaced so as to achieve a continuous treatment zone and in no case more than 12 inches apart. However, in no case should the structure be treated below the footing.

If termite activity is found inside an inaccessible crawl space, the area with termite activity must be treated. A localized interior treatment must be made at the site of the termite activity and at least 2 feet in both directions from the termite activity. Choose the appropriate application technique for treating **INACCESSIBLE CRAWL SPACE CONSTRUCTION** from the Conventional treatment section of this label.

### A.3 ACCESSIBLE CRAWL SPACES

**BEFORE TREATMENT: TURN OFF THE AIR CIRCULATION SYSTEM OF THE STRUCTURE UNTIL APPLICATION HAS BEEN COMPLETED AND ALL TERMIDOR SC HAS BEEN ABSORBED BY THE SOIL.**

For crawl spaces, apply vertical termiticide treatment at the rate of 4 gallons of 0.06%, 0.09% or 0.125% **Termidor SC** per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat outside the foundation and around all piers and pipes. Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow mixing and use directions on this label if situations are encountered where the soil will not accept the full application volume.

- Rod holes and trenches must not extend below the bottom of the footing.
- Rod holes must be spaced so as to achieve a continuous treated zone but in no case more than 12 inches apart.
- Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The 0.06%, 0.09% or 0.125% **Termidor SC** solution must be mixed with the soil as it is replaced in the trench.

**A4. GARAGES:** Attached garage floors should be treated in structures.

#### SUB-SLAB INJECTION

Sub-slab injection treatments can be made from inside the garage or in cases where this not possible, by drilling through the foundation from the outside as directed below. Prior to making any treatments, locate all heating/air conditioning ducts, vents, water/sewer lines, and electrical lines/conduits.

**Vertical Drilling/Injection:** To treat under the slab, drill vertically through the slab along the interior perimeter of the garage foundation. Drill holes along all concrete expansion joints, cracks, plumbing, and utility services penetrating the slab. It may be necessary to drill holes along one side of the slab adjacent to an interior partition wall if there is clear evidence of termite activity or damage in the wall. All drill holes through the slab should be spaced so as to achieve a continuous treatment zone but in no case be more than 12 inches apart. Inject a 0.06%, 0.09% or 0.125% solution of **Termidor SC** into the drilled holes at the rate of 4 gallons per 10 linear feet per foot of depth. For best results, application should be made with a lateral dispersal nozzle. All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

**Horizontal Drilling/Rodding/Sub-slab Injection from the Exterior of the Garage Foundation:** This technique should be used to treat underneath the slab only when interior design does not allow for vertical drilling. Care must be exercised not to rod into heating ducts, water/sewer lines, and electrical lines/conduits. Horizontal short-rod practices can be used to establish a continuous treatment zone along the inside perimeter of the foundation. Holes should be drilled from outside the foundation at an angle which allows a finished solution (0.06%, 0.09% or 0.125%) of **Termidor SC** to be deposited below heating ducts, water/sewer lines, and electrical conduits if present. Horizontal long rodding practices may only be employed to treat areas underneath the slab that are not accessible by vertical rodding or horizontal short rodding. Long rods exceeding 20 feet should not be used. For all horizontal rodding applications, all drill holes through the foundation should be spaced so as to achieve a continuous treatment zone but in no case be more than 12 inches apart. Inject a 0.06%, 0.09% or 0.125% solution of **Termidor SC** into the drilled holes at the rate of 4 gallons per 10 linear feet per foot of depth. For best results, make applications with a lateral dispersal nozzle. All holes must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

#### B. LOCALIZED INTERIOR TREATMENT

Targeted interior applications may be made to vulnerable areas such as around plumbing/utility lines penetrating floors, bath and/or shower traps, or along expansion joints or settlement cracks as part of a complete treatment. However, if known termite activity exists (as described above in the section on general information) in areas inside the living spaces (occupied areas of the structure) or non-living spaces (such as crawl spaces, plenums, etc.) of the structure, a localized interior treatment must be made in the immediate vicinity (at least 2 feet in two or more directions radiating from the site) of the termite activity.

##### B.1 INTERIOR CONCRETE FLOOR

If termite activity occurs in an interior wall or structural member, the area under the floor and behind the wall adjacent to the evidence must be treated with **Termidor SC** at 0.06%, 0.09% or 0.125% finished solution at a rate equal to 4 gallons per 10 linear feet. This localized interior treatment must be made at the site of the termite activity and at least 2 feet in two

or more directions radiating from the site. Foam can be used to maximize dispersion. Drill holes in commonly occupied areas must be plugged with a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

##### B.2 HOLLOW BLOCK FOUNDATIONS / VOIDS

If termite activity occurs in or in the vicinity (within 2 feet) of hollow block foundations or voids in masonry resting on the footing, the wall adjacent to the evidence must be drilled and **Termidor SC** at 0.06%, 0.09% or 0.125% finished solution must be injected into drill holes at a rate equal to 2 gallons per 10 linear feet of footing using a nozzle of 25 p.s.i. or less. This localized interior treatment to hollow block must be made at the site of the termite activity and to areas above the termite activity. Treatment must be made at least 2 feet in two or more directions radiating from the site of termite activity or along the wall pier or support post. Foam can be used to maximize dispersion. When using this treatment, access holes should be drilled below the sill plate and should be as close to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment. All leaks resulting in the deposition of **Termidor SC** in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean up is completed. The drilled holes in commonly occupied areas must be plugged with a non-cellulose material or covered by an impervious, non-cellulose material such as Portland cement.

##### B.3 BATH TRAPS

If termite activity is observed within 2 feet of the bath trap, then exposed soil or soil covered with tar or similar sealant around plumbing and/or drainpipe entry areas must be treated. Tar or sealant may have to be removed to allow for adequate soil treatment. An access door or inspection portal should be installed if one is not already present. After inspection and removal of all wood/cellulose debris, the soil can be treated by rodding or drenching the soil with a 0.06%, 0.09% or 0.125% solution of **Termidor SC**. Treat with a minimum of 1 gallon to a maximum of 4 gallons of finished solution per square foot.

##### B.4 SHOWER DRAINS

If termite activity is observed within two feet of the shower drains, then soil beneath and adjacent to shower drains must be treated. Drill through slab adjacent to shower drain and apply 0.06%, 0.09% or 0.125% finished solution of **Termidor SC** by sub-slab injection to the soil below. Foam can be used to maximize dispersion. Multiple access points may be drilled adjacent to the drain. A directional dispersion tip may be used to enhance treatment of the soil below the drain. Treat soil with a minimum of 1 gallon but no more than 4 gallons finished spray solution per shower drain. Horizontal rodding can be used to access and treat the soil associated with the shower drain if a horizontal treatment is possible.

#### POSTS, POLES, WOOD LANDSCAPE ORNAMENTATION

##### Do not contaminate wells or cisterns.

**Preventative Treatment:** Create a continuous chemical treatment zone in the soil around wooden posts, poles, fence posts, signs or landscape ornamentation. Apply a 0.06%, 0.09% or 0.125% solution of **Termidor SC** at the rate of 4 gallons per 10 linear feet per foot of depth. For treatments made during installation, the finished solution may be applied to soil as it is replaced around the post or pole. The finished application should place termiticide to a depth of six inches below the bottom of the posts, poles, or other wooden items in contact with the soil.

**Curative Treatment:** Previously installed poles, posts, landscape ornamentation, or signs may be treated with a 0.06%, 0.09% or 0.125% finished solution of **Termidor SC** by sub-surface injection or treated by gravity flow through holes made from the bottom of a trench around the pole or post. When trenching, the trench need not be wider than 6 inches wide and 6 inches deep. When sub-surface injecting, treat all sides to create a continuous treatment zone. Apply to a depth of six inches below the bottom of the wood.

**Termites Above Ground:** For control of termite aerial colonies, or drywood termites in localized areas of infested wood structures, apply at a 0.06%, 0.09% or 0.125% solution of **Termidor SC** to infested areas of wooden members/voids. Application may be made to inaccessible areas by drilling, and then injecting the finished solution with a crack and crevice injector into the damaged wood or void spaces.

Termite carton nests in trees or building voids may be injected with 0.06%, 0.09% or 0.125% solution using a pointed injection tool. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

#### **DO NOT TREAT FRUIT- OR NUT-BEARING TREES.**

#### **RETREATMENT INSTRUCTIONS**

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the treated zone due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide treated zone in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described on this label. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors which may reduce the effectiveness of the treated zone. Annual re-treatment of the structure is prohibited unless there is clear evidence that reinfestation, treatment zone disruption and/or evidence of breakdown has occurred.

**Termidor SC can be used to control ants, Carpenter ants and nuisance ants (including Argentine ants, Big-Headed ants, Odorous House ants and Pavement ants).**

**DIRECTIONS FOR USE: CARPENTER ANTS AND NUISANCE ANT CONTROL (Argentine ants, Big-Headed ants, Odorous House ants and Pavement ants):** For control of ants around houses and other structures, apply 0.06% **Termidor SC** to the structure exterior as a low pressure coarse spray where ants enter the structure, trail around the structure or where they crawl and hide. Also spray 0.06% **Termidor SC** around doors, windows, vents, pipes or any other exterior openings (including foundation cracks or drilled holes) where ants could enter the structure. Be especially careful to treat the joint where exterior siding (wood, vinyl, aluminum or any similar material) meets the cement, block or brick foundation. Treat all areas where any wires (electrical, telephone or cable) enter the house. This treatment should be made as a general surface spray, crack and crevice spray or wall void application. Apply 2 quarts of 0.06% **Termidor SC** finished spray per 160 linear feet. (This rate is approximately 1.5 gallons finished spray per 1000 square feet). Application is made one foot out and one foot up the foundation wall with a maximum number of 2 applications per year.

It is also necessary to remove or prune away all shrubbery, bushes, tree branches (dead or alive) touching the structure. This vegetation touching the structure offers a route of entry for ants into the structure and a method for the ants to continue to inhabit the structure without coming in contact with the treatment. If nests are found, direct treatment of **Termidor SC** can be made to these nests.

**Do not allow residents and pets into the immediate area during application and do not contact treated areas until sprays have dried.**

**LIMITED WARRANTY AND DISCLAIMER**

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.

BASF shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

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BASF makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY. Read the entire directions for use, conditions, disclaimer or warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

**NOTICE TO BUYER**

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside the United States.

**LABEL LICENSE FOR TERMIDOR**

**TERMIDOR®** is specially formulated and sold by BASF for the control of termites according to the directions on this label. The purchase price of **TERMIDOR®** includes a royalty whereby the purchaser acquires a prepaid license under U.S. Patent Nos. 5,232,940 and 5,700,460 under which purchaser agrees to employ the purchased quantity of **TERMIDOR®** only for the above-specified uses under BASF's United States patent rights and to provide notice of the terms and conditions of this license to any subsequent purchaser. Uses of **TERMIDOR®** other than those specified on this label are not licensed through the purchase of this product and the use of this product for other purposes may violate this license and patent rights of BASF.

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Teejet is a registered trademark of Spraying Systems Co.  
Raindrop is a registered trademark of GP Companies, Inc.  
Fipronil is protected by U.S. Patent No. 5,232,940.*

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Supersedes NVA 2003-04-220-0073

BASF Corporation  
Agricultural Products  
26 Davis Drive  
Research Triangle Park, NC 27709



The Chemical Company

# Safety Data Sheet

## TERMIDOR SC TERMITICIDE/INSECTICIDE

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(30357978/SDS\_CPA\_US/EN)

### 1. Identification

**Product identifier used on the label**

**TERMIDOR SC TERMITICIDE/INSECTICIDE**

**Recommended use of the chemical and restriction on use**

Recommended use\*: insecticide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Substance number:    | 256709                                                                           |
| EPA Register number: | 7969-210                                                                         |
| Molecular formula:   | C <sub>12</sub> H <sub>4</sub> Cl <sub>2</sub> F <sub>6</sub> N <sub>4</sub> O S |
| Chemical family:     | phenyl pyrazole                                                                  |
| Synonyms:            | fipronil                                                                         |

### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Classification of the product**

|            |                         |                                                    |
|------------|-------------------------|----------------------------------------------------|
| Acute Tox. | 4 (Inhalation - vapour) | Acute toxicity                                     |
| Acute Tox. | 4 (oral)                | Acute toxicity                                     |
| STOT RE    | 2                       | Specific target organ toxicity — repeated exposure |



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### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H332 | Harmful if inhaled.                                                |
| H302 | Harmful if swallowed.                                              |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Precautionary Statements (Prevention):

|      |                                                               |
|------|---------------------------------------------------------------|
| P271 | Use only outdoors or in a well-ventilated area.               |
| P261 | Avoid breathing vapours.                                      |
| P260 | Do not breathe dust/gas/mist/vapours.                         |
| P270 | Do not eat, drink or smoke when using this product.           |
| P264 | Wash with plenty of water and soap thoroughly after handling. |

Precautionary Statements (Response):

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| P312        | Call a POISON CENTER or doctor/physician if you feel unwell.               |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P314        | Get medical advice/attention if you feel unwell.                           |
| P330        | Rinse mouth.                                                               |

Precautionary Statements (Disposal):

|      |                                                                               |
|------|-------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
|------|-------------------------------------------------------------------------------|

### Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 % Inhalation - mist

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

### Emergency overview

CAUTION:

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

HARMFUL IF INHALED.

Causes eye irritation.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapours/mists.

Wash thoroughly after handling.

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### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>                                                          |
|-------------------|----------------------|-------------------------------------------------------------------------------|
| 120068-37-3       | 9.1 %                | fipronil                                                                      |
| 137-20-2          | 0.3 - 1.0 %          | Ethanesulfonic acid, 2-[methyl(1-oxo-9-octadecenyl)amino]-, sodium salt, (Z)- |
| 2634-33-5         | < 0.1 %              | 1,2-benzisothiazol-3(2H)-one                                                  |

#### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>    |
|-------------------|----------------------|-------------------------|
| 120068-37-3       | 9.1 %                | fipronil                |
| 57-55-6           | 3.0 %                | Propylene glycol        |
|                   | 87.9 %               | Proprietary ingredients |

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

##### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

##### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

##### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

##### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

#### Most important symptoms and effects, both acute and delayed

Symptoms: CNS stimulation, tremors, convulsions

Hazards: All injection injuries must be treated as potential threats to the future viability of the hand, foot, or limb. Injection wounds containing dirt, leather, product or other infectious detritus should be considered dangerous to the viability of the hand, foot or limb. Surgical exploration and debridement may be required.

#### Indication of any immediate medical attention and special treatment needed

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### Note to physician

Antidote:

No known specific antidote.

Treatment:

Treat symptomatically. Anticonvulsant therapy as routinely administered to humans. Based on animal studies diazepam and phenobarbital prevented convulsions. Due to the slow elimination of the active compound and its metabolites, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the clinical response.

---

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, hydrogen fluoride, Hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

---

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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### 7. Handling and Storage

#### Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

#### Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

#### Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

### 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

#### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or

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Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

|                                                     |                  |                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form:                                               | suspension       |                                                                                                                                                                                                        |
| Odour:                                              | characteristic   |                                                                                                                                                                                                        |
| Odour threshold:                                    |                  | Not determined since harmful by inhalation.                                                                                                                                                            |
| Colour:                                             | beige            |                                                                                                                                                                                                        |
| pH value:                                           | 7.2              | ( 10 g/l)                                                                                                                                                                                              |
| onset of boiling:                                   | approx. 100 °C   | ( 1,013 hPa) Information applies to the solvent.                                                                                                                                                       |
| Flash point:                                        | > 206.96 °F      |                                                                                                                                                                                                        |
| Lower explosion limit:                              |                  | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Upper explosion limit:                              |                  | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Autoignition:                                       |                  | Information applies to the solvent. not applicable                                                                                                                                                     |
| Vapour pressure:                                    | approx. 23.3 hPa | ( 20 °C) Information applies to the solvent.                                                                                                                                                           |
| Density:                                            | 1.06 g/cm3       | ( 20 °C)                                                                                                                                                                                               |
| Vapour density:                                     |                  | not applicable                                                                                                                                                                                         |
| Partitioning coefficient n-octanol/water (log Pow): |                  | not applicable                                                                                                                                                                                         |

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|                            |                                                                                                                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Self-ignition temperature: | not self-igniting                                                                                                                                                                                                                                                                                                  |
| Thermal decomposition:     | carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide<br>Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released. |
| Viscosity, dynamic:        | approx. 1,600 - 1,850 mPa.s ( 21.6 °C)                                                                                                                                                                                                                                                                             |
| Solubility in water:       | dispersible                                                                                                                                                                                                                                                                                                        |
| Molar mass:                | 437.15 g/mol                                                                                                                                                                                                                                                                                                       |
| Evaporation rate:          | not applicable                                                                                                                                                                                                                                                                                                     |
| Other Information:         | If necessary, information on other physical and chemical parameters is indicated in this section.                                                                                                                                                                                                                  |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

not fire-propagating

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

### Incompatible materials

strong acids, strong oxidizing agents, strong bases

strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide

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Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short-term inhalation.

#### Oral

Type of value: LD50

Species: rat

Value: 1,999 mg/kg

#### Inhalation

Type of value: LC50

Species: rat

Value: > 1.7 mg/l

Exposure time: 4 h

Type of value: LC50

Species: rat

Value: 6.8 mg/l (calculated)

Exposure time: 1 h

#### Dermal

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

#### Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

#### Skin

Species: rabbit

Result: Slightly irritating.

#### Eye

Species: rabbit

Result: Slightly irritating.

#### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Species: guinea pig

Result: Non-sensitizing.

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### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

#### Genetic toxicity

Assessment of mutagenicity: Not classified, due to lack of data.

#### *Information on: fipronil*

*Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.*

-----

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

#### *Information on: fipronil*

*Assessment of carcinogenicity: In long-term studies in rats the substance induced thyroid tumors. In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.*

-----

#### Reproductive toxicity

#### *Information on: fipronil*

*Assessment of reproduction toxicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.*

-----

#### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

-----

### Symptoms of Exposure

CNS stimulation, tremors, convulsions

#### Medical conditions aggravated by overexposure

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

---

## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.



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### Toxicity to fish

LC50 (96 h) 3.89 mg/l, *Brachydanio rerio*

### Aquatic invertebrates

EC50 (48 h) 0.2 mg/l, *Daphnia pulex*

### Aquatic plants

#### *Information on: fipronil*

EC50 (96 h) 0.068 mg/l (biomass), *Scenedesmus subspicatus*

EC50 (336 h) > 0.160 mg/l, *Lemna minor*

EC50 (120 h) > 0.140 mg/l, *Selenastrum capricornutum*

EC50 (120 h) > 0.170 mg/l, *Anabaena flos-aquae*

EC50 (120 h) > 0.120 mg/l, *Navicula sp.*

### Assessment of terrestrial toxicity

With high probability not acutely harmful to terrestrial organisms.

### Other terrestrial non-mammals

#### *Information on: fipronil*

LD50 (48 d) 0,00593 ug/bee (contact), *Apis mellifera*

LD50 (48 d) 0,00417 ug/bee (oral), *Apis mellifera*

## **Persistence and degradability**

### Elimination information

Not readily biodegradable (by OECD criteria).

## **Mobility in soil**

### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

## **Additional information**

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

---

## **13. Disposal considerations**

### **Waste disposal of substance:**

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **Container disposal:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

### RCRA:

This product is not regulated by RCRA.

## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)

### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHS  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Acute; Chronic

### State regulations

#### State RTK

PA

#### CAS Number

57-55-6

#### Chemical name

Propylene glycol

NFPA Hazard codes:

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Health : 2      Fire: 1      Reactivity: 1      Special:

### Labeling requirements under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

#### CAUTION:

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

HARMFUL IF INHALED.

Causes eye irritation.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapours/mists.

Wash thoroughly after handling.

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2015/04/30

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

# TIM-BOR<sup>®</sup>

## PROFESSIONAL

### Insecticide & Fungicide

**Tim-Bor Professional is one of America's most popular pest control products.** It eliminates wood destroying organisms and offers long-lasting protection with great application flexibility as a dust, liquid or foam. DOT, its active ingredient, has no known resistance and will not break down over time.

Pest companies have used Tim-Bor for more than 20 years to kill and prevent drywood termites. Dust it into galleries or spray it onto wood to kill existing infestations and help prevent the need for future fumigation.

- **Kills and controls:**
  - drywood & subterranean termites
  - decay fungi
  - wood boring beetles
  - carpenter ants
- Use as a dust, liquid or foam for interior or exterior use.
- Can be used in conjunction with fumigation for residual protection.



Robin Taylor, UC Berkeley 2006



# Tim-bor® Professional

## INSECTICIDE AND FUNGICIDE

A preservative for protection and treatment of wood against fungal decay and wood destroying insects including termites.

For the prevention and remedial control of wood\*\* infesting organisms including:  
Termites, Drywood Termites, Wood Destroying Beetles Decay Fungi and Carpenter Ants

\*\*Also for Wood Foam Composite Structural Components

### Active Ingredient:

Disodium Octaborate Tetrahydrate (CAS No. 12280-03-4)..... 98%

Other Ingredient+ ..... 2%

Total ..... 100%

+Contains 2% H<sub>2</sub>O – Absorbed Moisture

EPA Reg. No. 64405-8 EPA Est. 64405-TN-1

**Keep Out of Reach of Children**  
**CAUTION**

### FIRST AID

|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If Swallowed</b>                                                                                                                                                                                  | <ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
| <b>If Inhaled</b>                                                                                                                                                                                    | <ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>                                                   |
| <b>If In Eyes</b>                                                                                                                                                                                    | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>                                                   |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information. |                                                                                                                                                                                                                                                                                                                                                           |

### PRECAUTIONARY STATEMENTS

#### Hazards To Humans & Domestic Animals

**CAUTION:** Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate; butyl, nitrile, neoprene and natural rubbers ≥ 14 mils; polyethylene; polyvinyl chloride; and viton ≥ 14 mils. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Applicators, mixers and other handlers must wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and protective eyewear. When applying this product in confined spaces, provide ventilation or an exhaust system.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet;
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing;
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothing.

### Environmental Hazards

Wood treatment facilities must take steps to prevent runoff of the product into the waterway. Treated material stored outdoors within 100 feet of a pond, lake, stream or river must be covered, surrounded by a containment berm or otherwise protected to prevent surface water runoff. The containment berm must be of sufficient height to prevent runoff during heavy rainfall events.

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

### NOTICE

Read and understand the entire label before using.

Use only according to label directions.

Before buying or using this product, read the **Warranty Disclaimer** and **Limitation of Remedies** statements found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Disclaimer** and **Limitation of Remedies**.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For applications to tree stumps, do not apply dust directly to stumps; instead mix dust and water and then spray onto the stumps.

### Product Information

TIM-BOR Professional is a water soluble, inorganic borate salt with insecticidal and fungicidal properties effective against wood-destroying organisms including the target pests listed below. Apply TIM-BOR Professional as a liquid solution, powder or foam. TIM-BOR Professional is an effective treatment for wood (and wood-foam composite structural components) to kill and prevent infestations of decay fungi including white rot, brown rot (i.e., *Porcia*) and wet rots. This product may be used for preventative treatment (before signs of infestation), for wood in existing structures and for remedial treatment of infested wood in

existing structures. TIM-BOR Professional is also effective for the prevention and control of wood destroying insects such as, but not limited to, the following organisms: Subterranean Termites (Reticulitermes, Heterotermes, Coptotermes (Formosan)), Drywood Termites (Kaloterms, Incisitermes), Dampwood Termites (Zootermopsis), Powderpost Beetles (Lyctinae, Bostrichidae), Deathwatch and Furniture Beetles (Anobiidae), Old House Borers, Longhorned Beetles (Cerambycidae), Carpenter Ants (Camponotus), Bark and Timber Beetles.

TIM-BOR Professional is recommended for wood and cellulose material in accordance with the specific treatment methods described herein. TIM-BOR Professional is effective for all interior and exterior wood (and wood-foam composite structural components) that will be protected from excessive rain and not in direct contact with the soil. Types of wood include, but are not limited to, all types of lumber, logs and plywood. This product kills wood-destroying organisms. Some etching of treated wood may occur from organisms before they die. Do not apply TIM-BOR Professional to wood or cellulose material that has been painted, varnished or sealed. For best results, apply TIM-BOR Professional to bare wood. Use soap and water to clean application equipment.

**Note:** Spraying water on some wood species can mobilize natural wood extractives, raise the grain and leave behind calcium or other deposits. Prior to treating large areas, treat a small area with TIM-BOR Professional solution to ensure that you are satisfied with the final aesthetics.

#### Preparation of Treatment Solutions

**10% TIM-BOR Professional Liquid Solution:** To prepare solution, add approximately 80% of the required volume of water to the mixing vessel. While stirring, gradually add 1.0 pound of TIM-BOR Professional for each gallon of treating solution required. Add remaining water to the solution and stir until the entire product has dissolved.

**15% TIM-BOR Professional Liquid Solution:** Prepare solution as above, but gradually add 1.5 lbs of TIM-BOR Professional for each gallon of treatment solution needed. Use this solution as soon as possible and do not store for an extended length of time.

**15% TIM-BOR Professional Foam:** Prepare a 15% liquid solution as described above and also add a surfactant-foaming agent. Generally 1-2 ounces of a foaming agent, added to the 15% liquid solution, produces a dry foam with the desired expansion ratio of approximately 20 to 1 (20 gallons of foam per 1 gallon of liquid solution). The TIM-BOR Professional foam should be of a "dry" consistency that adheres to wood surfaces so that run-off is minimized. A "wet" foam may damage wallboard or other building components. Refer to the individual foam equipment manufacturer's manual and the surfactant's label for specific instructions.

Wash and rinse all equipment after each use.

#### Application Instructions

**TIM-BOR Professional as a liquid solution:** TIM-BOR Professional liquid applications may be made to wood structures including decks, fences, steps, sheds, barns and other outbuildings. Application may also be made by drilling and then injecting the solution under pressure into sound wood or into the insect galleries of infested wood. TIM-BOR Professional may be applied as a foam to wood surfaces or injected into wall voids or insect galleries.

#### Remedial and Preventative Treatment

**TIM-BOR Professional Solutions for the Control of Wood Destroying Organisms and to Kill Active Infestations of Termites, Powderpost Beetles and Wood Fungi:** For remedial control of wood attacking organisms or for the protection of wood

against future infestations, two applications of a 10% liquid solution are required. One application of a 15% liquid solution may be used. Apply TIM-BOR Professional solutions by brush or spray at the rate of 5 gallons of liquid solution per 1000 square feet of wood surface area. Thoroughly wet wood surface area. Application may also be made by drilling and then injecting the liquid solution under pressure into sound wood or until run-off is observed coming from entry/exit holes of infested wood.

**TIM-BOR Professional Powder to Kill and Control Wood Destroying Organisms, Such as Termites and Carpenter Ants:** Apply TIM-BOR Professional as is to wood members by drilling and injecting the powder into galleries or by dusting generously on wood surfaces. TIM-BOR Professional powder can also be injected or dusted into wall voids such as between studs, block voids, box sills, eaves, attics, soffits, etc. Apply TIM-BOR Professional powder to these areas at the rate of 0.5 ounce (12-14 grams) per square foot.

**TIM-BOR Professional Foam:** In wall voids, inject enough dry foam to contact wood surfaces of studs in the wall or the entire desired target area. Apply foam, where possible, to abutting wood surfaces and between wood joints. Apply the foam so that all accessible wood surfaces are covered with foam. TIM-BOR Professional foam can also be injected into insect galleries until run-off is observed.

#### Storage and Disposal

*(1.5 lb bag • 250 lb. drum • 1500 lb. super sack)*

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Non-refillable container; do not reuse or refill this container. Triple rinse (or equivalent) container then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration.

#### Storage and Disposal

*(25 lb. bucket)*

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Non-refillable container; do not reuse or refill this container. Completely empty container by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment; then offer for recycling, if available; or dispose of in a sanitary landfill; or, if allowed by state and local authorities, by incineration.

#### Warranty Disclaimer

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

#### Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such

factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of application, all of which are beyond the control of the Manufacturer. The buyer/user assumes all such risks.

#### **Limitation of Remedies**

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.

Specimen



**NISUS**<sup>®</sup>  
CORPORATION

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## SAFETY DATA SHEET



Health Emergencies: INFOTRAC® (800) 535-5053

### 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** Tim-Bor Professional®

**Recommended use of the chemical and restrictions on use:**

Termiticide, Insecticide, and Fungicide Concentrate Powder. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 04/20/20

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

Health

Reproductive Toxicity Category 2

**GHS Label Elements:**



**Signal Word:** Warning!

**Statements of Hazard**

H303: May be harmful if swallowed.

H361: Suspected of damaging fertility or the unborn child.

**Precautionary Statements**

P202: Do not handle until all safety precautions have been read and understood.

P308+P313: If exposed or concerned: Get medical advice/attention.

P501: Dispose of contents/container in accordance with local regulation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                        | CAS No.    | Amount |
|----------------------------------|------------|--------|
| Disodium Octaborate Tetrahydrate | 12280-03-4 | >98%   |

### 4. FIRST AID MEASURES

**Description of necessary first aid measures:**

Protection of first-aiders: No special protective clothing is required.

**Inhalation:** If symptoms such as nose or throat irritation are observed, remove to fresh air.

**Eye contact:** Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

**Skin contact:** No treatment necessary.

**Ingestion:** Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

**Most important symptoms and effects both acute and delayed:**

Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling (see Section 11).

**Indication of any immediate medical attention and special**

**treatment needed:** Note to physicians: Supportive care only is required for adult ingestion of less than a few grams of the product. For

ingestion of larger amounts, maintain fluid and electrolyte balance and maintain adequate kidney function. Gastric lavage is only recommended for heavily exposed, symptomatic patients in whom emesis has not emptied the stomach. Hemodialysis should be reserved for patients with massive acute absorption, especially for patients with compromised renal function. Boron analyses of urine or blood are only useful for verifying exposure and are not useful for evaluating severity of poisoning or as a guide in treatment.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Use extinguishing media that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** None

**Special hazards arising from the chemical**

None. The product is not flammable, combustible or explosive.

**Special protective equipment and precautions for fire fighters:**

Not applicable. The product is itself a flame retardant.

### 6. ACCIDENTAL RELEASE MEASURES

**Precaution, protective equipment and emergency procedures**

**For non-emergency personnel:**

Eye goggles and gloves are not required for normal industrial exposures, but eye protection according to ANSI Z.87.1 or other national standard. Respirators should be considered if environment is excessively dusty.

**For emergency responders:**

Eye goggles and gloves are not required for normal industrial exposures, but eye protection according to ANSI Z.87.1 or other national standard. Respirators should be considered if environment is excessively dusty.

**Environmental precautions:** The product is a water-soluble white powder that may cause damage to trees or vegetation by root absorption. Avoid contamination of water bodies during clean up and disposal. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level or meets local water quality standards.

**Methods and material for containment and cleaning up:**

**Appropriate containment:** Avoid spillage into water and cover drains.

**Land spill:** Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations.

**Spillage into water:** Where possible, remove any intact containers from the water.

**Reference to other sections**

Refer to sections 8, 12 and 13.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Good housekeeping procedures should be followed to minimize dust generation and accumulation. Avoid spills.

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for safe storage, including any incompatibilities**

No special handling precautions are required, but dry, indoor storage is recommended. To maintain package integrity and to minimize caking of the product, bags should be handled on a first-in first-out basis.

**Storage temperature:** Ambient

**Storage pressure:** Atmospheric

**Special sensitivity:** Moisture (Caking)



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

**Occupational exposure limit values:** In the absence of a national OEL, Rio Tinto Borax recommends and applies internally an Occupational Exposure Limit (OEL) of 1 mg B/m<sup>3</sup>. To convert product into equivalent boron (B) content, multiply by 0.21.

### Occupational Exposure Limits:

|                            |                      |                                                       |
|----------------------------|----------------------|-------------------------------------------------------|
| OSHA/PEL (total dust)      | 15 mg/m <sup>3</sup> | Particulate Not Otherwise Classified or Nuisance Dust |
| OSHA/PEL (respirable dust) | 5 mg/m <sup>3</sup>  | Particulate Not Otherwise Classified or Nuisance Dust |
| Cal OSHA/PEL               | 5 mg/m <sup>3</sup>  | Particulate Not Otherwise Classified or Nuisance Dust |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

**Appearance:** White, crystalline solid

**Odor:** Odorless

**Odor threshold:** Not applicable

**pH @ 20°C:** 8.3 (3.0% solution); 7.6 (10.0% solution)

**Melting point/ Freezing point:** 815°C

**Initial boiling point and boiling range:** Not applicable.

## 10. STABILITY AND REACTIVITY

**Reactivity:** None known.

**Chemical Stability:** Under normal ambient temperatures (-40°C to +40°C), the product is stable.

**Possibility of Hazardous Reactions:** Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.

**Conditions to Avoid:** Avoid contact with strong reducing agents by storing according to good industrial practice.

**Incompatible Materials:** Strong reducing agents.

**Hazardous Decomposition Products:** None

## 11. TOXICOLOGICAL INFORMATION

**Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):**

### (a) Acute toxicity

Acute Oral Toxicity Study – OECD Guidelines 401

Low acute oral toxicity. LD<sub>50</sub> in male rats is 2,550 mg/kg.

Classification: Acute Toxicity (Oral) Category 5 (Hazard statement: H303: May be harmful if swallowed)

Acute Dermal Toxicity Study – similar to OECD Guideline 402

Low acute dermal toxicity; LD<sub>50</sub> in rabbits is > 2,000 mg/kg.

Acute Inhalation Toxicity Study – OECD Guideline 403

Low acute inhalation toxicity. LC<sub>50</sub> in rats is > 2.0 mg/l (or g/m<sup>3</sup>).

### (b) Skin corrosion / irritation:

No skin irritation in rabbits. Mean Primary Irritation Score: 0.5. Based on the available data for the hydrated forms of sodium tetraborate, the classification criteria are not met.

### (c) Serious eye damage / irritation:

Eye Irritation Study – similar to OECD Guideline 405

Results: Not irritating to eyes. Induced slight iritis, conjunctivae redness and chemosis, reversible after 4-7 days with a return to near normal by 7 days after exposure.

Classification: Based on mean scores of ≤ 1, and the effects were fully reversible within 7 days, the classification criteria are not met.

### (d) Respiratory or skin sensitization:

Buehler Test – OECD Guideline 406

Not a skin sensitizer. No respiratory sensitization studies have been conducted. There are no data to suggest that boric acid or sodium borates are respiratory sensitizers. Based on the available data, the classification criteria are not met.

### (e) Germ cell mutagenicity:

Not mutagenic (based on boric acid). Based on the available data, the classification criteria are not met.

### (f) Carcinogenicity:

Method: OECD 451 equivalent.

No evidence of carcinogenicity (based on boric acid). Based on the available data, the classification criteria are not met.

### (g) Reproductive toxicity:

Method: Three-generation feeding study, similar to OECD 416 Two-Generation Study

NOAEL in rats for effects on fertility in males is 100 mg boric acid/kg bw equivalent to 17.5 mg B/kg bw.

Prenatal Developmental Toxicity Study of Boric Acid - OECD Guideline 414

Routes of Exposure: Oral feeding study

NOAEL in rats for developmental effects on the fetus including fetal weight loss and minor skeletal variations is 55 mg boric acid/kg.

Reproductive Toxicity Category 2 (Hazard statement: H361:

Suspected of damaging fertility or the unborn child.)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity (aquatic and terrestrial, where available):

Note that the data values are expressed as boron equivalents. To convert to this product divide the boron equivalent by 0.21.

### Freshwater—Chronic Studies

| Taxonomic Group            | Number of Taxa Tested | Range of Endpoint Values (geometric NOEC/EC <sub>10</sub> )                           |
|----------------------------|-----------------------|---------------------------------------------------------------------------------------|
| Algal                      | 4                     | 10 mg B/L ( <i>Chlorella pyrenoidosa</i> ) to 50 mg B/L ( <i>Anacystis nidulans</i> ) |
| Higher plants              | 3                     | 4.0 mg B/L ( <i>Phragmites australis</i> ) to 60 mg B/L ( <i>Lemna minor</i> )        |
| Invertebrate and protozoan | 7                     | 5.7 mg B/L ( <i>Daphnia magna</i> ) to 32 mg B/L ( <i>Chironomus riparius</i> )       |
| Fish                       | 6                     | 2.9 mg B/L ( <i>Micropterus salmoides</i> ) to 17 mg B/L ( <i>Carassius auratus</i> ) |
| Amphibian                  | 2                     | 29 mg B/L ( <i>Rana pipiens</i> ) to 41 mg B/L ( <i>Bufo fowleri</i> )                |

Based on the acute data for freshwater species, this substance is not classified as hazardous to the environment.

### Marine and Estuary—Chronic Studies

| Taxonomic Group | Number of Taxa Tested | Range of Endpoint Values (geometric NOEC/ EC <sub>10</sub> )                                                                                         |
|-----------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Algal           | 19                    | 5 mg B/L ( <i>Emiliana huxleyi</i> ) to >100 mg B/L ( <i>Agmenellum quadruplicatum</i> , <i>Anacystis marina</i> , <i>Thalassiosira pseudonana</i> ) |

### Marine and Estuary—Acute Studies

| Taxonomic Group | Number of Taxa Tested | Range of Endpoint Values (geometric EC/LC <sub>50</sub> )                              |
|-----------------|-----------------------|----------------------------------------------------------------------------------------|
| Invertebrate    | 3                     | 45 mg B/L ( <i>Litopenaeus vannamei</i> ) to 83 mg B/L ( <i>Americamysis bahia</i> )   |
| Fish            | 2                     | 74 mg B/L ( <i>Limanda limanda</i> ) to 600 mg B/L ( <i>Oncorhynchus tshawytscha</i> ) |

No data are available for algal species.

### Sediment

| Taxonomic Group | Number of Taxa Tested | Range of Endpoint Values (geometric EC/LC <sub>50</sub> ) |
|-----------------|-----------------------|-----------------------------------------------------------|
| Invertebrate    | 1                     | 82.4 mg B/kg sediment dw ( <i>Chironomus riparius</i> )   |

Results: Although limited, the data suggest that sediment organisms are within range of toxicity of aquatic organisms. In addition, the substance will not partition to the sediment, so a sediment/water partitioning approach is justified

## Sewage Treatment Plants (STP)

| Taxonomic Group  | Number of Taxa Tested | Range of Endpoint Values (geometric NOEC/EC <sub>10</sub> )                              |
|------------------|-----------------------|------------------------------------------------------------------------------------------|
| Activated sludge | N/A                   | >17.5 mg B/L to 100 mg B/L                                                               |
| Microbes         | 3                     | 10 mg B/L ( <i>Opercularia bimarginata</i> ) to 20 mg B/L ( <i>Paramecium caudatum</i> ) |

## Terrestrial-Chronic Studies

| Taxonomic Group | Number of Taxa Tested | Range of Endpoint Values (geometric NOEC/EC <sub>10</sub> )                                                          |
|-----------------|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Plant           | 28                    | 7.2 mg B/kg dw ( <i>Zea mays</i> ) to 56 mg B/kg dw ( <i>Allium cepa</i> )                                           |
| Invertebrates   | 9                     | 15.4 mg B/kg dw ( <i>Folsomia candida</i> ) to 87 mg B/kg dw ( <i>Caenorhabditis elegans</i> )                       |
| Soil micro      | 7                     | 12 mg B/kg dw (nitrogen mineralization and nitrification test) to 420 mg B/kg dw (soil nitrogen transformation test) |

Based on the complete data set, the HC5 value of the species sensitivity distribution is 10.8 mg B/kg dw.

**Phytotoxicity:** Boron is an essential micronutrient for healthy growth of plants. It can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimize the amount of borate product released to the environment.

**Persistence and Degradability:** Biodegradation is not an applicable endpoint since the product is an inorganic substance.

**Bioaccumulative potential:** This product will undergo hydrolysis in water to form undissociated boric acid. Boric acid will not biomagnify through the foodchain.

**Mobility in soil:** The product is soluble in water and is leachable through normal soil. Adsorption to soils or sediments is insignificant.

**Other adverse effects:** None

## 13. DISPOSAL CONSIDERATION

### Disposal methods:

Product packaging should be recycled where possible. Local authorities should be consulted about any specific local requirements. Such product should, if possible, be used for an appropriate application.

## 14. TRANSPORTATION INFORMATION

**Transport Classification for Road (ADR) / Rail (RID); Inland waterways (ADN); Sea (IMDG); Air (ICAO/IATA):** Not Regulated.

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture :**

**Clean Air Act (Montreal Protocol) - Substances that deplete the ozone layer:** Not manufactured with and does not contain any Class I or Class II ozone depleting substances.

**Regulation (EC) No 689/2008 - Export and Import of Dangerous Chemicals:** Not listed.

**National Regulations:** Ensure all national/local regulations are observed.

**U.S. EPA RCRA:** This product is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA) or regulations (40 CFR 261 *et seq.*)

**EPA FIFRA:** This product is a pesticide registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:  
**CAUTION**

Causes moderate eye irritation.

Harmful if swallowed.

Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Superfund:** CERCLA/SARA. This product is not listed under CERCLA (Comprehensive Environmental Response Compensation and Liability Act) or its 1986 amendments, SARA (Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65, Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355, or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

**Safe Drinking Water Act (SDWA):** This product is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 *et seq.* Consult state and local regulations for possible water quality advisories regarding boron compounds.

**Clean Water Act (CWA) (Federal Water Pollution Control Act):** 33 USC 1251 *et seq.*

a) This product is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.

b) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.

c) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

## FIFRA Labeling:

**Tim-Bor Professional**

**EPA Reg. No. 64405-8**

**Keep Out of Reach of Children**

**CAUTION**

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

**CERCLA:** Report all spills in accordance with local, state, and federal regulations.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): Ethylene Glycol 107-21-1 40-50%

**EPA TSCA Inventory:** This product is regulated under FIFRA, thus exempt.

**IARC:** The International Agency for Research on Cancer (IARC) (a unit of the World Health Organization) does not list or categorize this product as a carcinogen.

**NTP Biennial Report on Carcinogens:** This product is not listed.

**OSHA carcinogen:** This product is not listed.

**California Proposition 65:** This product is not listed on the Proposition 65 list of carcinogens or reproductive toxicants.

## 16. OTHER INFORMATION

**NFPA Rating:** Health = 0 Flammability = 0 Reactivity = 0

**HMIS Rating:** Health = 1\* Flammability = 0 Reactivity = 0

\*Chronic Effects

**SDS Revision History:** 04/28/15: New SDS  
04/20/20: Revised

## WARRANTY DISCLAIMER

The information, data and recommendations contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof. With respect to this publication and the product related thereto, unless otherwise expressly provided by Manufacturer in writing, **MANUFACTURER MAKES NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

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# Tim-Bor® Professional Safety Data Sheet

Issue Date: 26-Apr-2022

Revision Date: 09-May-2022

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Tim-Bor Professional

### Other means of identification

**SDS #** NIS-048

**Registration Number(s)** EPA Reg. No. 64405-8

### Recommended use of the chemical and restrictions on use

**Recommended Use** Termiticide, Insecticide, and Fungicide Concentrate Powder. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

#### Emergency telephone number

**Company Phone Number** Phone: (800)-264-0870  
Fax: (865) 577-5825  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

**Appearance** White crystalline solid

**Physical state** Solid

**Odor** Odorless

### Classification

Reproductive toxicity

Category 1B

### Signal Word

**Danger**

### Hazard statements

May damage fertility or the unborn child

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name    | CAS No     | Weight-% |
|------------------|------------|----------|
| Inorganic Borate | 12280-03-4 | >99      |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST AID MEASURES****Description of first aid measures**

|                       |                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.                                                                    |
| <b>Eye Contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br>Consult a physician. |
| <b>Skin Contact</b>   | Wash off immediately with plenty of water for at least 15 minutes.                                                      |
| <b>Inhalation</b>     | Remove to fresh air.                                                                                                    |
| <b>Ingestion</b>      | Clean mouth with water and drink afterwards plenty of water.                                                            |

**Most important symptoms and effects, both acute and delayed**

|                 |                              |
|-----------------|------------------------------|
| <b>Symptoms</b> | May be harmful if swallowed. |
|-----------------|------------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Product is not flammable.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Contain and collect with an inert absorbent and place into an appropriate container for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing and eye/face protection. Keep containers closed when not in use. Refer product label for additional information on use and handling. This product may be sold in refillable containers. For a refillable container; refill this only with Tim-Bor. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller, cleaning before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong reducing agents. Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical name                  | ACGIH TLV                                                                                                             | OSHA PEL | NIOSH IDLH |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|------------|
| Inorganic Borate<br>12280-03-4 | STEL: 6 mg/m <sup>3</sup> inhalable<br>particulate matter<br>TWA: 2 mg/m <sup>3</sup> inhalable<br>particulate matter | -        | -          |

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Use water-proof gloves for normal application of this product. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges appropriate for the form and concentration of the contaminants should be used. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                               |                                           |                         |                |
|-----------------------------------------------|-------------------------------------------|-------------------------|----------------|
| <b>Physical state</b>                         | Solid                                     | <b>Odor</b>             | Odorless       |
| <b>Appearance</b>                             | White crystalline solid                   | <b>Odor Threshold</b>   | Not determined |
| <b>Color</b>                                  | White                                     |                         |                |
| <b>Property</b>                               | <b>Values</b>                             | <b>Remarks • Method</b> |                |
| <b>pH</b>                                     | 8.3 (3.0% solution)<br>7.6 (10% solution) |                         |                |
| <b>Melting point / freezing point</b>         | Not determined                            |                         |                |
| <b>Boiling point / boiling range</b>          | Not determined                            |                         |                |
| <b>Flash point</b>                            | Not determined                            |                         |                |
| <b>Evaporation Rate</b>                       | Not determined                            |                         |                |
| <b>Flammability (Solid, Gas)</b>              | Not determined                            |                         |                |
| <b>Flammability Limit in Air</b>              |                                           |                         |                |
| <b>Upper flammability or explosive limits</b> | Not determined                            |                         |                |
| <b>Lower flammability or explosive limits</b> | Not determined                            |                         |                |
| <b>Vapor Pressure</b>                         | Not determined                            |                         |                |
| <b>Vapor Density</b>                          | Not determined                            |                         |                |
| <b>Relative Density</b>                       | Not determined                            |                         |                |
| <b>Water Solubility</b>                       | Soluble in water                          |                         |                |
| <b>Solubility in other solvents</b>           | Not determined                            |                         |                |
| <b>Partition Coefficient</b>                  | Not determined                            |                         |                |
| <b>Autoignition temperature</b>               | Not determined                            |                         |                |
| <b>Decomposition temperature</b>              | Not determined                            |                         |                |
| <b>Kinematic viscosity</b>                    | Not determined                            |                         |                |
| <b>Dynamic Viscosity</b>                      | Not determined                            |                         |                |
| <b>Explosive Properties</b>                   | Not determined                            |                         |                |
| <b>Oxidizing Properties</b>                   | Not determined                            |                         |                |

**10. STABILITY AND REACTIVITY****Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.

**Conditions to Avoid**

Keep out of reach of children.

**Incompatible materials**

Strong reducing agents. Strong oxidizing agents.

**Hazardous decomposition products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |                              |
|---------------------|------------------------------|
| <b>Eye Contact</b>  | Avoid contact with eyes.     |
| <b>Skin Contact</b> | Avoid contact with skin.     |
| <b>Inhalation</b>   | Do not inhale.               |
| <b>Ingestion</b>    | May be harmful if swallowed. |

**Component Information**

| <b>Chemical name</b>           | <b>Oral LD50</b>     | <b>Dermal LD50</b> | <b>Inhalation LC50</b> |
|--------------------------------|----------------------|--------------------|------------------------|
| Inorganic Borate<br>12280-03-4 | = 2500 mg/kg ( Rat ) | -                  | -                      |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |                                                |
|-----------------|------------------------------------------------|
| <b>Symptoms</b> | Please see section 4 of this SDS for symptoms. |
|-----------------|------------------------------------------------|

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Carcinogenicity</b>       | Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reproductive toxicity</b> | <p>Sodium Borate: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth.</p> <p>The above mentioned animal studies were conducted under exposure conditions leading to doses many times in excess of those that could occur through product use or inhalation of dust in occupational settings. Moreover, a human study of occupational exposure to sodium borate and boric acid dusts showed no adverse effect on fertility.</p> |



**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 2,500.00 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

Not available

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical name    | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| Inorganic Borate | X    |                       |          |                |      | X     |      | X     |      |

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

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**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## **US Federal Regulations**

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **U.S. State Right-to-Know Regulations**

| Chemical name                  | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------|------------|---------------|--------------|
| Inorganic Borate<br>12280-03-4 | X          |               |              |

**EPA Pesticide Registration Number** EPA Reg. No. 64405-8

### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

Please refer to EPA label for additional information

#### **Difference between SDS and EPA pesticide label**

Please refer to EPA label for additional information

**16. OTHER INFORMATION**

|                    |                       |                     |                         |                            |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b><u>NFPA</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|                    | 0                     | 0                   | 0                       | Not determined             |
| <b><u>HMIS</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical hazards</b> | <b>Personal Protection</b> |
|                    | 1                     | 0                   | 0                       | Not determined             |

**Issue Date:** 26-Apr-2022  
**Revision Date:** 09-May-2022  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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# Trelona® ATBS

## Annual Bait Stations

- For use by individuals/firms licensed or registered by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product with questions you may have.
- A termite bait that may be used in an integrated management program for the protection of structures against subterranean termites.

### ACTIVE INGREDIENT:

Novaluron: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy)  
phenyl]-3-(2,6-difluorobenzoyl) urea . . . . . 0.50%

**OTHER INGREDIENTS:** . . . . . 99.50%

**TOTAL:** . . . . . 100.00%

Contains 0.5 grams of novaluron per 100 grams of formulation

U.S. Patent No. 8,720,108

**EPA Reg. No. 499-557**

**EPA Est. No. 7969-MO-004**

### KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

Refer to full label for **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

**Kit Contains: 16 Stations, Preloaded with 2 Trelona®  
Compressed Termite Bait Cartridges each.**

Product of U.S.A.

81116939 NVA 2020-05-466-0168

BASF Corporation  
26 Davis Drive  
Research Triangle Park  
NC 27709

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## FIRST AID

### If in eyes

- Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

## HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency general information on this pesticide product (including health concerns or pesticide incidents), you may call 1-800-832-HELP (4357), 24 hours per day, 7 days per week.

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Environmental Hazards

The active ingredient in this product is extremely toxic to aquatic invertebrates. **DO NOT** place in any area where, because of the movement of water, it could be washed into a body of water containing aquatic life, such as ponds or streams.

## Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Read the **Use Directions** carefully before using this product. This product is part of a termite baiting system and is intended for use in BASF approved bait stations which may be purchased from most professional pest control product distributors. Use of this bait in any other type of station or system not approved by BASF is prohibited. Call 1-800-777-8570 for assistance in using this product or any other components of the termite baiting system.

When inspected and replenished per label **Use Directions**, this product provides on-going structural protection through colony elimination; however, conditions or circumstances beyond the control of the user (competing insects, flooding events, cold weather, presence of alternative food sources, etc.) may alter the time needed to achieve structural protection.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

### Pesticide Storage

Store in a cool, dry (preferably locked) area, in a place that is inaccessible to children and animals.

### Pesticide Disposal

Product not disposed of by use according to label directions should be wrapped in paper and placed in a trash can. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Container Handling

**Nonrefillable container. DO NOT** reuse or refill this container. Offer for recycling if available. If recycling is not available, place container in trash.

## In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

---

## Station Installation

Install stations around a structure such that, except where sufficient access to the ground is not available, the maximum interval between any two stations does not exceed 20 feet. If the distance between 2 points of accessible ground around the structure exceeds 30 feet, it may be advisable to form 1 or more openings in the inaccessible surface to facilitate baiting between the accessible areas.

To install a station, excavate a hole in the ground approximately the same size and dimensions as those of the station. Insert the station and maximize contact between the exterior of the station and the soil. This will increase the probability of termite entrance into the station. If the station is inserted into an opening created through a hardened construction surface (such as concrete, asphalt, etc.), insert station below the surface (in contact with the ground) and seal securely.

Install stations within approximately 5 feet of points of known, probable, or suspected termite foraging activity and in other areas that provide conditions conducive to termite activity. Such areas may include concentrations of cellulose-containing debris in contact with the ground, such as mulch, wood scraps, areas of moderate soil moisture, shaded areas, areas containing plant root systems, bath traps, visible termite foraging tubes, or other evidence of termite activity or conducive conditions. Relocate or modify the station location to prevent water from collecting in the station by, for example, creating a sump area under the installed station or at the bottom of the cavity. If termites have permanently abandoned the station due to excessive moisture, remove the saturated bait and re-bait the station with fresh bait at that time or after the excess moisture condition has abated.

If the structure has an accessible crawl space, stations can be installed in the crawl space in lieu of or in addition to installing stations around the structure; however, either the interior or the exterior of the crawl space must contain a complete set of stations, as defined by this label. Stations can be installed within a slab structure in existing or created openings in the slab surface through which ground is accessible and into which the station can be installed in a secure manner.

Once termite activity has occurred at a station and bait consumption has begun, it may be advisable, depending on the rate of bait consumption in that station and nearby stations, to install 1 or more supplemental stations in the immediate vicinity (up to 5 feet) of the infested station(s) in order that bait consumption by the colony be maximized.

---

## Use Directions

### Pre-construction Use

**In Florida, for use as a stand-alone preventative treatment for new construction, use two 124 gram cartridges in every bait station around structure.** This product can be used for preventative treatment (before signs of infestation) of new structures (as a substitute for, and in lieu of, pre-construction soil treatment). Place stations around the outside of the structure only after the final exterior grade is established (and preferably after landscaping is completed).

### Post-construction Use

This product can be used for remedial treatment of infested existing structures or for preventative treatment (before signs of infestation) of existing structures.

### Pre-baiting

Pre-baiting is a process by which termite activity is established at a location prior to the application of bait at that location. Use BASF approved pre-bait to establish activity in the station. Inspect pre-baited stations every 120 days. Inspections cannot take place more than 30 days beyond the required interval unless cold temperatures persist (average daily mean exterior air temperature below 50°F). Termite feeding activity is typically reduced under low temperature conditions making it difficult to accurately assess termite activity. The operator should always make allowances for local circumstances when considering increasing elapsed time between inspections. If there is termite activity in a pre-baited station, make bait continuously available for colony consumption by removing the pre-bait and placing this product in the station. Refer to **Table 1. Baiting Inspection Intervals** for details.

### Direct Baiting

This product can be placed in stations at any time prior to termite activity (direct baiting), with or without the presence of termites. Refer to **Table 1. Baiting Inspection Intervals** for details.

**Table 1. Baiting Inspection Intervals**

| Inspection Interval | Cartridges Required                                                |
|---------------------|--------------------------------------------------------------------|
| 120 Days*           | One 124 gram cartridge                                             |
| Annual              | <b>Every bait station must contain:</b><br>Two 124 gram cartridges |

Inspection intervals must comply with state regulations where applicable.

Shorter inspection intervals may be warranted if termite activity indicates complete consumption of the bait in a station before the scheduled inspection.

Inspections cannot take place more than 30 days beyond the required interval unless cold temperatures persist (average daily mean exterior air temperature below 50°F). Termite feeding activity is typically reduced under low temperature conditions making it difficult to accurately assess termite activity. The operator should always make allowances for local circumstances when considering increasing elapsed time between inspections.

- **DO NOT** allow more than 6 months to pass between inspections for the 120 day inspection interval.
- **DO NOT** allow more than 15 months to pass between inspections for the annual inspection interval.

\* After feeding has stopped, and there has been no activity for one year, inspect the stations every 6 months.

**Inspecting Stations and Replacing Bait**

To inspect a station, remove the cover and visually examine the cartridges for the presence of termites, being careful to minimize disturbance in the case that termites are present. If it appears that >1/3 of a bait cartridge in the station has been consumed, replace that cartridge with a new cartridge. If termites are not present, inspect bait for excessive decay. Replace excessively decayed bait and securely close the station cover.

**Transitioning from 120 Day to Annual Inspection Interval in Baited Stations**

Alternatively, baited stations on a 120 day inspection interval may be switched to an annual inspection interval if all contents are removed from the stations and replaced with two **Trelona® Compressed Termite Bait** cartridges. All stations around the structure must contain two **Trelona Compressed Termite Bait** cartridges or the inspection period cannot exceed 120 days. Inspection of bait treatments made with this product must be done according to the inspection intervals listed in **Table 1. Baiting Inspection Intervals**.

**Non-structure Spot Treatment**

This product can also be applied or used as a spot treatment in areas not associated with structures or buildings, such as around trees, wood piles, landscaping elements, railroad track beds, at the edge of property lines and other areas where termite activity is known or suspected. Such treatments may be made alone or in combination with an additional method of termiticide treatment. To provide a non-structure spot treatment, install one or more bait station(s) in the soil at or near points of known or suspected termite activity. Non-structure spot treatment baiting may be discontinued at any time at the discretion of the applicator. Inspection of bait treatments made with this product must be done according to the inspection intervals listed in **Table 1. Baiting Inspection Intervals**.

**Supplemental Treatments**

If a soil-applied liquid or granular termiticide treatment is performed in conjunction with installation of the bait system, **DO NOT** treat the area where stations are installed (preferably not within 2 feet of stations). Because the use of bait may be a multi-step process, localized treatment using soil applied termiticide to the structure infested with active termites at the time of baiting may provide more immediate control of termites in those parts of the structure. Preventative spot treatments to critical areas of soil or wood may be performed in conjunction with station installation. **DO NOT** treat directly on top of installed stations with a repellent insecticide during routine general pest or perimeter applications.

This product can be applied or used as a supplemental treatment in, underneath, and around structures or buildings to kill termites in support of or as a supplement to a termiticide product labeled for and applied as a stand-alone termiticide treatment. This includes pre- and post-construction soil termiticide treatments labeled for providing structural protection. This product may also be used in combination with an additional termiticide treatment as a supplemental treatment in areas not associated with structures or buildings, such as around trees, wood piles, landscaping elements, railroad track beds, and other areas where termite activity is known or suspected. Inspection of bait treatments made with this product must be done according to the inspection intervals listed in **Table 1. Baiting Inspection Intervals**.

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

PCS915

*Trelona is a registered trademark of BASF.*

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000499-00557.20200130.**NVA 2020-04-466-0013**

Based on: NVA 2019-04-466-0079

Supersedes: NVA 2017-04-466-0141

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26 Davis Drive  
Research Triangle Park, NC 27709



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## NOTES

# Trelona<sup>®</sup>

## Compressed Termite Bait

- For use by individuals/firms licensed or registered by the state to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the structural pest control regulatory agency of your state prior to use of this product with questions you may have.
- A termite bait that may be used in an integrated management program for the protection of structures against subterranean termites.

### ACTIVE INGREDIENT:

Novaluron: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy)  
phenyl]-3-(2,6-difluorobenzoyl) urea . . . . . 0.50%

**OTHER INGREDIENTS:** . . . . . 99.50%

**TOTAL:** . . . . . 100.00%

Contains 0.5 grams of novaluron per 100 grams of formulation

U.S. Patent No. 8,720,108

**EPA Reg. No. 499-557**

**EPA Est. No. 7969-MO-004**

### KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

Refer to full label for **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

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Research Triangle Park  
NC 27709

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## FIRST AID

### If in eyes

- Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

## HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency general information on this pesticide product (including health concerns or pesticide incidents), you may call 1-800-832-HELP (4357), 24 hours per day, 7 days per week.

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Environmental Hazards

The active ingredient in this product is extremely toxic to aquatic invertebrates. **DO NOT** place in any area where, because of the movement of water, it could be washed into a body of water containing aquatic life, such as ponds or streams.

## Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Read the **Use Directions** carefully before using this product. This product is part of a termite baiting system and is intended for use in BASF approved bait stations which may be purchased from most professional pest control product distributors. Use of this bait in any other type of station or system not approved by BASF is prohibited. Call 1-800-777-8570 for assistance in using this product or any other components of the termite baiting system.

When inspected and replenished per label **Use Directions**, this product provides on-going structural protection through colony elimination; however, conditions or circumstances beyond the control of the user (competing insects, flooding events, cold weather, presence of alternative food sources, etc.) may alter the time needed to achieve structural protection.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

### Pesticide Storage

Store in a cool, dry (preferably locked) area, in a place that is inaccessible to children and animals.

### Pesticide Disposal

Product not disposed of by use according to label directions should be wrapped in paper and placed in a trash can. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Container Handling

**Nonrefillable container. DO NOT** reuse or refill this container. Offer for recycling if available. If recycling is not available, place container in trash.

## In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

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## Station Installation

Install stations around a structure such that, except where sufficient access to the ground is not available, the maximum interval between any two stations does not exceed 20 feet. If the distance between 2 points of accessible ground around the structure exceeds 30 feet, it may be advisable to form 1 or more openings in the inaccessible surface to facilitate baiting between the accessible areas.

To install a station, excavate a hole in the ground approximately the same size and dimensions as those of the station. Insert the station and maximize contact between the exterior of the station and the soil. This will increase the probability of termite entrance into the station. If the station is inserted into an opening created through a hardened construction surface (such as concrete, asphalt, etc.), insert station below the surface (in contact with the ground) and seal securely.

Install stations within approximately 5 feet of points of known, probable, or suspected termite foraging activity and in other areas that provide conditions conducive to termite activity. Such areas may include concentrations of cellulose-containing debris in contact with the ground, such as mulch, wood scraps, areas of moderate soil moisture, shaded areas, areas containing plant root systems, bath traps, visible termite foraging tubes, or other evidence of termite activity or conducive conditions. Relocate or modify the station location to prevent water from collecting in the station by, for example, creating a sump area under the installed station or at the bottom of the cavity. If termites have permanently abandoned the station due to excessive moisture, remove the saturated bait and re-bait the station with fresh bait at that time or after the excess moisture condition has abated.

If the structure has an accessible crawl space, stations can be installed in the crawl space in lieu of or in addition to installing stations around the structure; however, either the interior or the exterior of the crawl space must contain a complete set of stations, as defined by this label. Stations can be installed within a slab structure in existing or created openings in the slab surface through which ground is accessible and into which the station can be installed in a secure manner.

Once termite activity has occurred at a station and bait consumption has begun, it may be advisable, depending on the rate of bait consumption in that station and nearby stations, to install 1 or more supplemental stations in the immediate vicinity (up to 5 feet) of the infested station(s) in order that bait consumption by the colony be maximized.

---

## Use Directions

### Pre-construction Use

**In Florida, for use as a stand-alone preventative treatment for new construction, use two 124 gram cartridges in every bait station around structure.** This product can be used for preventative treatment (before signs of infestation) of new structures (as a substitute for, and in lieu of, pre-construction soil treatment). Place stations around the outside of the structure only after the final exterior grade is established (and preferably after landscaping is completed).

### Post-construction Use

This product can be used for remedial treatment of infested existing structures or for preventative treatment (before signs of infestation) of existing structures.

### Pre-baiting

Pre-baiting is a process by which termite activity is established at a location prior to the application of bait at that location. Use BASF approved pre-bait to establish activity in the station. Inspect pre-baited stations every 120 days. Inspections cannot take place more than 30 days beyond the required interval unless cold temperatures persist (average daily mean exterior air temperature below 50°F). Termite feeding activity is typically reduced under low temperature conditions making it difficult to accurately assess termite activity. The operator should always make allowances for local circumstances when considering increasing elapsed time between inspections. If there is termite activity in a pre-baited station, make bait continuously available for colony consumption by removing the pre-bait and placing this product in the station. Refer to **Table 1. Baiting Inspection Intervals** for details.

### Direct Baiting

This product can be placed in stations at any time prior to termite activity (direct baiting), with or without the presence of termites. Refer to **Table 1. Baiting Inspection Intervals** for details.

Table 1. Baiting Inspection Intervals

| Inspection Interval | Cartridges Required                                                |
|---------------------|--------------------------------------------------------------------|
| 120 Days*           | One 124 gram cartridge                                             |
| Annual              | <b>Every bait station must contain:</b><br>Two 124 gram cartridges |

Inspection intervals must comply with state regulations where applicable.

Shorter inspection intervals may be warranted if termite activity indicates complete consumption of the bait in a station before the scheduled inspection.

Inspections cannot take place more than 30 days beyond the required interval unless cold temperatures persist (average daily mean exterior air temperature below 50°F). Termite feeding activity is typically reduced under low temperature conditions making it difficult to accurately assess termite activity. The operator should always make allowances for local circumstances when considering increasing elapsed time between inspections.

- **DO NOT** allow more than 6 months to pass between inspections for the 120 day inspection interval.
- **DO NOT** allow more than 15 months to pass between inspections for the annual inspection interval.

\* After feeding has stopped, and there has been no activity for one year, inspect the stations every 6 months.

Inspecting Stations and Replacing Bait

To inspect a station, remove the cover and visually examine the cartridges for the presence of termites, being careful to minimize disturbance in the case that termites are present. If it appears that >1/3 of a bait cartridge in the station has been consumed, replace that cartridge with a new cartridge. If termites are not present, inspect bait for excessive decay. Replace excessively decayed bait and securely close the station cover.

Transitioning from 120 Day to Annual Inspection Interval in Baited Stations

Alternatively, baited stations on a 120 day inspection interval may be switched to an annual inspection interval if all contents are removed from the stations and replaced with two **Trelona® Compressed Termite Bait** cartridges. All stations around the structure must contain two **Trelona Compressed Termite Bait** cartridges or the inspection period cannot exceed 120 days. Inspection of bait treatments made with this product must be done according to the inspection intervals listed in **Table 1. Baiting Inspection Intervals.**

Non-structure Spot Treatment

This product can also be applied or used as a spot treatment in areas not associated with structures or buildings, such as around trees, wood piles, landscaping elements, railroad track beds, at the edge of property lines and other areas where termite activity is known or suspected. Such treatments may be made alone or in combination with an additional method of termiticide treatment. To provide a non-structure spot treatment, install one or more bait station(s) in the soil at or near points of known or suspected termite activity. Non-structure spot treatment baiting may be discontinued at any time at the discretion of the applicator. Inspection of bait treatments made with this product must be done according to the inspection intervals listed in **Table 1. Baiting Inspection Intervals.**

Supplemental Treatments

If a soil-applied liquid or granular termiticide treatment is performed in conjunction with installation of the bait system, **DO NOT** treat the area where stations are installed (preferably not within 2 feet of stations). Because the use of bait may be a multi-step process, localized treatment using soil applied termiticide to the structure infested with active termites at the time of baiting may provide more immediate control of termites in those parts of the structure. Preventative spot treatments to critical areas of soil or wood may be performed in conjunction with station installation. **DO NOT** treat directly on top of installed stations with a repellent insecticide during routine general pest or perimeter applications.

This product can be applied or used as a supplemental treatment in, underneath, and around structures or buildings to kill termites in support of or as a supplement to a termiticide product labeled for and applied as a stand-alone termiticide treatment. This includes pre- and post-construction soil termiticide treatments labeled for providing structural protection. This product may also be used in combination with an additional termiticide treatment as a supplemental treatment in areas not associated with structures or buildings, such as around trees, wood piles, landscaping elements, railroad track beds, and other areas where termite activity is known or suspected. Inspection of bait treatments made with this product must be done according to the inspection intervals listed in **Table 1. Baiting Inspection Intervals.**

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

PCS915

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BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



We create chemistry

## NOTES



Specimen Label

- Kills Roaches Where They Hide
- Highly Palatable Bait Matrix
- Contains NyGuard IGR
- Dual Modes-of-Action—IGR & Insecticide/Adulticide



#### ACTIVE INGREDIENTS:

|                         |         |
|-------------------------|---------|
| Clothianidin .....      | 0.50%   |
| Pyriproxyfen .....      | 0.50%   |
| OTHER INGREDIENTS ..... | 99.00%  |
|                         | 100.00% |

KEEP OUT OF REACH OF CHILDREN  
See inside for first aid and precautionary statements.

## Vendetta Nitro™ Cockroach Gel Bait Effectively Kills Cockroaches.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### USE RESTRICTIONS:

- Do not apply to humans, animals, clothing, or bedding.
- Do not contaminate feed or food products, or food preparation surfaces, dishes, kitchen utensils or food containers.
- Do not use residual or insecticide sprays on or near gel Vendetta Nitro Cockroach Gel Bait.
- DO NOT APPLY ANY BAIT IN COCKPIT AREAS OF AIRCRAFT.
- Use only in areas not easily accessible to children, pets, and other non-target organisms.
- Only for spot and crack and crevice application.
- Do not apply bait in areas where repellent insecticides have been or will be used in the future without thoroughly washing the surface.
- Do not apply bait to areas where food utensils or food preparation surfaces may become contaminated.
- Do not treat food preparation surfaces.
- Do not deposit gel onto exposed surfaces.
- Do not place bait in locations that are routinely washed, as bait will be removed by washing.

#### USE DIRECTIONS:

This product is for use as a spot or crack and crevice treatment for the indoor control of cockroaches in residential areas (only in areas inaccessible to children and pets) and both food/feed and non-food/non-feed areas of institutional, warehousing, and commercial establishments, including warehouses, restaurants and other food handling establishments, food processing and meat packing plants, food area storage areas, supermarkets, apartments, hospitals, nursing homes, health care facilities, motels, hotels, schools, daycare centers, correctional facilities, military installations, garages, laboratories, computer and electronic equipment facilities, basements, buses, boats/ships, aircraft, trains, pet shops, and zoos and sub-surface utility systems (steam/electric/gas/data tunnels, drainage systems and sanitary sewers) that are not storm or runoff drainage systems.

Non-food/non-feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

Food/feed areas include areas for receiving storage, packing (canning, bottling, wrapping, and boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, and syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.



For Household Use – In closets, basements, attics, recreation rooms, living areas, kitchens, bathrooms, dining rooms, pantries, food storage shelving, waste receptacles, etc.

Do not apply gel onto exposed surfaces. If gel contacts an exposed surface, remove gel and wash exposed surfaces. During follow-up visits, inspect bait placements and re-apply when necessary.

Avoid contact with textiles and clothing, as bait may stain.

Avoid placing gel on fabrics or carpets since it may stain some absorbent materials. To prevent staining, exposed bait should be cleaned up immediately with a damp cloth or sponge.

Vendetta Nitro Cockroach Gel Bait is for use in controlling roaches indoors and outdoors (adjacent to structures). The pre-filled plastic reservoir containing Vendetta Nitro Cockroach Gel Bait is intended for use with bait injector application devices common to the pest control industry. Inject into cracks and crevices, void spaces, and other locations where insects may harbor, live and breed. Concentrate the bait placements as individual spots at cockroach harborages (only in areas inaccessible to children and pets).

#### APPLICATION RATES:

Application rates will vary depending on the severity of the infestation and the target species of cockroach. For maintenance apply 0.25 to 0.50 grams of bait per 100 sq. ft. of treatment areas. For light infestations, apply 1 to 3 grams of bait per 100 sq. ft. of treatment area. For heavy infestations, apply 6 to 12 grams of bait per 100 sq. ft. of treatment areas. Each bait bead should equal about 0.008 to 0.032 grams of product. A spot approximately 1 mm in diameter equals 0.008 grams of product, while a spot approximately 4 mm in diameter equals 0.032 grams of product. Bead sizes and shapes can vary, but must remain within the specified grams per 100 square feet. To better facilitate bait consumption, distribute total bait amount into as many beads as possible.

#### SPECIFIED BEAD SIZES:



#### BAIT WEIGHT:

| Approximate weight per bead diameter |
|--------------------------------------|
| 4 mm bead = 0.032 grams              |
| 3 mm bead = 0.025 grams              |
| 2 mm bead = 0.016 grams              |
| 1 mm bead = 0.008 grams              |

#### APPLICATION RATES:

| Application type   | Specified grams of bait per 100 sq. ft. |
|--------------------|-----------------------------------------|
| Maintenance        | 0.25 - 0.50 grams                       |
| Light              | 1 - 3 grams                             |
| Heavy or clean out | 6 - 12 grams                            |

#### TO APPLY GEL:

1. Remove the cap from the nozzle, touch the top to the surface to be treated, and push down on the plunger. Apply bait as spots in cracks and crevices. Recap the dispenser after treatment is completed.
2. Store in a cool, dry place.
3. Do not apply gel to areas that have been recently sprayed with insecticide, and do not spray insecticide over gel, as this reduces bait palatability.
4. The bait will adhere to non-greasy or non-dusty surfaces.
5. A visual inspection of bait placements is recommended 2 to 4 weeks after the initial treatment. Reapply when bait is no longer visibly present, according to the level of infestation. Replace bait before it is completely consumed to keep roaches from returning.

#### APPLICATIONS IN AIRCRAFT:

DO NOT APPLY ANY BAIT IN COCKPIT AREAS OF AIRCRAFT. Application within passenger areas of aircraft is limited to crack and crevice treatment only. Apply Vendetta Nitro Cockroach Gel Bait in areas between elements of construction (such as areas under sinks, openings around pipes, under shelving, where shelving meets other shelves or the wall, areas between and around microwaves, where support braces attach to the main structure, and where seats are attached to the floor). Use 6 to 12 grams of bait per 100 sq. ft.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt and long pants, socks, shoes, and waterproof gloves made out of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or Viton ≥ 14 mils. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

##### ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish and wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

##### PHYSICAL OR CHEMICAL HAZARDS:

Do not apply this product in or around electrical equipment due to the possibility of shock hazard.

#### KEEP OUT OF REACH OF CHILDREN

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

##### STORAGE:

Store in a cool, dry place. Always store pesticides in the original container. Store away from food and pet food.

##### PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.



EPA Reg. No. 1021-2796  
EPA Est. No. 1021-MN-2  
Rev. 0217-0517



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2.5M-1113



# SAFETY DATA SHEET

Issue Date: 26-May-2021

Revision Date: 26-May-2021

Version: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** Vendetta Nitro™ Cockroach Gel Bait

**EPA Registration Number:** 1021-2796

### Other means of identification

**Part Code:** 3113, 3113A

### Recommended use of the chemical and restrictions on use

**Recommended Use:** Insecticide.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address:**

McLaughlin Gormley King Company  
7325 Aspen Lane North  
Minneapolis, MN 55428  
USA

#### **FAX #:**

(763) 544-6437

Telephone Number: (800) 645-6466, or (763) 544-0341

e-Mail Address: mgk-sds@mgk.com

### Emergency telephone number

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300

**International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

### **Comments:**

MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.  
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to  
(888) 740-8712, or (952) 852-9509.

## 2. HAZARDS IDENTIFICATION

### Classification:

#### **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Category 1

### Label elements

#### **Emergency Overview**

### **WARNING**

#### **Hazard statements**

- H317 - May cause an allergic skin reaction

**Appearance:** brown**Physical state:** Solid (gel)**Odor** Sweet , Vegetable-oil**Precautionary Statements - Prevention:**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves

**Precautionary Statements - Response:**

P321 - Specific treatment (see Section 4/ First Aid).

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

**Precautionary Statements - Storage:**

P404 - Store in a closed container

**Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name         | CAS No.     | Weight-% |
|-----------------------|-------------|----------|
| Clothianidin          | 210880-92-5 | 0.50     |
| Pyriproxyfen (NYLAR®) | 95737-68-1  | 0.50     |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

**4. FIRST AID MEASURES****Aspiration pneumonia hazard:** • Not applicable**Description of first aid measures****Eye contact:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin Contact:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

|                                                |                                                                                                                                                                                                                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ingestion:</b>                              | If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person. |
| <b>Inhalation:</b>                             | Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.                                               |
| <b>Self-protection of the First Responder:</b> | Use personal protective equipment as required.                                                                                                                                                                                                                                         |
| <b>Note to physicians:</b>                     | May cause sensitization of susceptible persons<br>For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).                                                                                  |

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable extinguishing media:**

Caution: Use of water spray when fighting fire may be inefficient.

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Explosion data

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

### Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use personal protective equipment as required. Avoid contact with eyes and skin.

**Environmental precautions:** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

### Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling:** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering Controls:** Safety showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Protective eyewear is recommended, but is not required.

**Skin and body protection:** Wear protective gloves and protective clothing.

**Respiratory protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties:**

**Physical state:** Solid (gel)  
**Appearance:** brown  
**Odor** Sweet , Vegetable-oil  
**Odor threshold:** No information available  
**Color:** light brown  
**Color (Gardner Scale):** No information available

**Property:**  
**pH:** 5.10  
**Melting point / freezing point:** No information available  
**Boiling point / boiling range:** No information available  
**Flash point:** No information available

**Evaporation rate:** No information available  
**Flammability (solid, gas):** 0

**Comment: • Method**  
@ 1% in H<sub>2</sub>O. .

Does not ignite after 2 minutes. Not considered highly flammable.

|                                             |                          |
|---------------------------------------------|--------------------------|
| Upper flammability limit (UEL):             | No information available |
| Lower flammability limit (LEL):             | No information available |
| Vapor pressure:                             | No information available |
| Vapor density:                              | No information available |
| Specific Gravity:                           | No information available |
| Water solubility:                           | No information available |
| Partition coefficient; n-Octanol/<br>Water: | No information available |
| Autoignition temperature:                   | No information available |
| Decomposition temperature:                  | No information available |
| Kinematic viscosity:                        | No information available |
| Dynamic viscosity:                          | No information available |
| Refractive Index:                           | No information available |

**Other Information:**

|                  |                                |
|------------------|--------------------------------|
| Density          | 0.94<--->1.1 g/cm <sup>3</sup> |
| VOC Content (%): | 0.944                          |

**Miscibility/ Solubility:**

|                        |                    |
|------------------------|--------------------|
| Water:                 | Partially miscible |
| Alcohol:               | Partially miscible |
| Aromatic solvents:     | Partially miscible |
| Petroleum distillates: | Immiscible         |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials:**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

**Numerical measures of toxicity - Product Information**

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Oral LD <sub>50</sub>       | >5,000 mg/kg (rat)                                                 |
| Dermal LD <sub>50</sub>     | >5,000 mg/kg (rabbit)                                              |
| Inhalation LC <sub>50</sub> | No data required.                                                  |
| Eye contact:                | Minimal eye irritation. Irritation clearing in 48 hours. (rabbit). |
| Skin Contact:               | Slightly irritating. (rabbit).                                     |
| Skin Irritation Index:      | 0.1                                                                |

|                                  |                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Sensitization:</b>            | Positive. (guinea pig).                                                                               |
| <b>Carcinogenicity</b>           | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP |
| <b>Reproductive toxicity:</b>    | No information available.                                                                             |
| <b>Developmental Toxicity</b>    | No information available.                                                                             |
| <b>Teratogenicity:</b>           | No information available.                                                                             |
| <b>STOT - single exposure:</b>   | No information available.                                                                             |
| <b>STOT - repeated exposure:</b> | No information available.                                                                             |
| <b>Chronic toxicity:</b>         | Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.   |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

**Other adverse effects:** No information available

### Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

**Contaminated packaging:** For more information, see product label.

## 14. TRANSPORT INFORMATION

### DOT (Department of Transportation)

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Solid  
**Hazard Class:** This material is not hazardous.

### Air (IATA/ ICAO)

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Solid  
**Hazard Class:** This material is not hazardous.

**Vessel (IMO/ IMDG)**

|                              |                                                                                |
|------------------------------|--------------------------------------------------------------------------------|
| <b>UN/ID Number:</b>         | UN3077                                                                         |
| <b>Proper Shipping Name:</b> | Environmentally Hazardous Substance, Solid, n.o.s.(Clothianidin, Pyriproxyfen) |
| <b>Hazard Class:</b>         | 9                                                                              |
| <b>Packing Group:</b>        | III                                                                            |
| <b>Marine Pollutant:</b>     | Yes                                                                            |

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard****Categories**

|                                          |     |
|------------------------------------------|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations:****California Proposition 65:**

This product does not contain any intentionally added Proposition 65 chemicals

**U.S. EPA Label Information:**

**EPA Registration Number:** 1021-2796

**Difference between SDS and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

**Precautionary Statements:**



- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**International Inventories:**

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Complies        |
| <b>DSL/NDSL</b>      | Complies        |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AICS</b>          | Does not comply |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                          |                       |                           |                                         |
|-------------|--------------------------|-----------------------|---------------------------|-----------------------------------------|
| <b>NFPA</b> | <b>Health hazards 2</b>  | <b>Flammability 1</b> | <b>Instability 0</b>      | <b>Physical and Chemical Properties</b> |
| <b>HMIS</b> | <b>Health hazards 2*</b> | <b>Flammability 1</b> | <b>Physical hazards 0</b> | <b>Personal protection</b>              |
|             |                          |                       |                           | X                                       |

*Chronic Hazard Star Legend \* = Chronic Health Hazard*

**Issue Date:**  
26-May-2021

**Revision Date:**  
26-May-2021

**Revision Note:**  
- Product Code Changed  
- SDS sections updated  
- 1  
- 11

**SDS Prepared By:**  
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**Disclaimer:**

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, MGK® and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither MGK® nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact MGK® to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT

REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**End of Safety Data Sheet**