

In regards to OPRA Request – Berlin Township Resident

Request #198-2024

Washington Township Municipal only handles the following building for pest control service

Local office in Township

Washington Township Municipal Building

Washington Township Police Department

Washington Township Senior Center

Washington Township Lake Park Ranger Building

Washington Township Community Center

Washington Township Baseball Concession - seasonal

Washington Township Football Concession - seasonal

At this time we are using: Billing Address: F & F Division of Action Termite (Pest Control)  
1913 Hooper Avenue  
Toms River, NJ 08753  
Phone# 856-227-5253

We have the company do all common areas – offices as needed – other areas as requested  
\$135.00 per month total

Going back as far as 2021 – total monthly bills - \$135.00 each month

**Christine Ciallella**

198-2024

**From:** Berlin Township Resident <opra+request-59178-10084981@requests.opramachine.com> on behalf of Berlin Township Resident  
**Sent:** Tuesday, March 5, 2024 2:22 PM  
**To:** OPRA requests at Washington Township (Gloucester)  
**Subject:** OPRA request - Pest control services

Dear Washington Township (Gloucester),

This is a request for public records made under OPRA and the common law right of access. I am not required to fill out an official form. Please acknowledge receipt of this message.

Records requested:

All records pertaining to pest control services for all buildings owned by Washington Township Gloucester County NJ .

Specifically: Fire departments, police departments, ambulance halls , municipal building, and offices

Requested : name of company offering pest control services - phone number , SDS Sheets , and cost of services .

Yours faithfully,

Citizen

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Please deliver records electronically via email to the below UNIQUE address for all replies to this request:  
opra+request-59178-10084981@requests.opramachine.com

Is cciallella@twp.washington.nj.us the wrong address for OPRA requests to Washington Township (Gloucester)? If so, please contact us using this form:

[https://opramachine.com/change\\_request/new?body=washington\\_township\\_gloucester](https://opramachine.com/change_request/new?body=washington_township_gloucester)

Disclaimer: This message and any reply that you make will be published on the internet. Our privacy and copyright policies:

<https://opramachine.com/help/officers>

View this OPRA request & responses online:

[https://opramachine.com/request/pest\\_control\\_services](https://opramachine.com/request/pest_control_services)

Please note that in some cases publication of requests and responses will be delayed.

If you find this service useful as an OPRA custodian, please ask your web manager to link to us from your organisation's website.

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

##### Product Name

- **Lambda 9.7 CS**

##### Synonyms

- 100208956; 100208957; EPA Reg. No.: 89459-51

##### Product Description

- Off-white liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

##### Recommended use

- Insecticide.

##### Restrictions on use

- Keep out of reach of children. Avoid contact with eyes and skin.

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

##### Manufacturer

- Central Garden & Pet Company  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173  
United States

[www.zoecon.com](http://www.zoecon.com)

#### Emergency telephone number

**Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC

**Manufacturer (Transportation)** • 1-703-527-3887 - Chemtrec - Outside US collect calls accepted

**Manufacturer** • 1-800-248-7763

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

##### OSHA HCS 2012

- Not classified; does not meet hazard criteria.

#### Label elements

##### OSHA HCS 2012

**Hazard statements** • No label element(s) required

#### Other hazards

##### OSHA HCS 2012

- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

| Composition        |                |       |
|--------------------|----------------|-------|
| Chemical Name      | Identifiers    | %     |
| Lambda-cyhalothrin | CAS:91465-08-6 | 9.7%  |
| Acetophenone       | CAS:98-86-2    | 4%    |
| Other ingredients  | NDA            | 86.3% |

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- IF INHALED: Move person to fresh air. If person is not breathing, call 911 or get medical help then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or seek medical advice.

#### Skin

- 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.

#### Eye

- IF IN EYES: Hold eye open and rinse 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.

#### Ingestion

- IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. 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.

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

- Refer to Section 11 - Toxicological Information.

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

#### Notes to Physician

- Treat symptomatically and supportively.

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media** • Use water spray, alcohol resistant foam, carbon dioxide, or dry chemical.

**Unsuitable Extinguishing Media** • Avoid heavy hose streams.

**Firefighting Procedures** • Move containers from fire area if you can do it without risk.

Use extinguishing agent suitable for type of surrounding fire.  
Do not allow fire fighting water to escape into waterways or sewers.

## Special hazards arising from the substance or mixture

### Unusual Fire and Explosion Hazards

- No data available.

### Hazardous Combustion Products

- Decomposes upon heating to produce toxic vapors/gases including oxides of carbon and nitrogen.

### Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Use appropriate Personal Protective Equipment (PPE). Avoid contact with skin, eyes, and clothing. Ventilate the area.

#### Emergency Procedures

- No data available. Do not allow runoff into water, storm drains or drainage ditches.

### Environmental precautions

- Contain and prevent from release into any waterway, sewer or drain.

### Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Avoid contact with skin or eyes. Avoid breathing fumes. Do not use in areas without adequate ventilation. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a cool/low-temperature, well-ventilated, dry place. Keep container tightly closed. Keep from freezing. Store away from incompatible materials.

#### Incompatible Materials or Ignition Sources

- Separate pesticides during storage to prevent cross-contamination of other pesticides, fertilizers, food and feed.

### Other Information

- See product label for additional information.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

| Exposure Limits/Guidelines |        |            |
|----------------------------|--------|------------|
|                            | Result | ACGIH      |
| Acetophenone<br>(98-86-2)  | TWAs   | 10 ppm TWA |

## Exposure controls

### Engineering Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust etc)

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- If handling without sufficient ventilation, wear a NIOSH approved respirator with organic cartridge.

#### Eye/Face

- Wear chemical splash safety goggles.

#### Hands

- Wear chemical resistant gloves.

#### Skin/Body

- Long sleeve shirt, long pants, shoes, and socks should be worn.

### General Industrial Hygiene Considerations

- Do not get in eyes or on skin or clothing. Handle in accordance with good industrial hygiene and safety practice.

### Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

| Material Description                |                   |                                   |                   |
|-------------------------------------|-------------------|-----------------------------------|-------------------|
| Physical Form                       | Liquid            | Appearance/Description            | Off-white liquid. |
| Color                               | Off-white         | Odor                              | Pungent           |
| Odor Threshold                      | No data available |                                   |                   |
| General Properties                  |                   |                                   |                   |
| Boiling Point                       | No data available | Melting Point/Freezing Point      | No data available |
| Decomposition Temperature           | No data available | Heat of Decomposition             | No data available |
| pH                                  | 4.17              | Specific Gravity/Relative Density | 1.01 g/ml         |
| Density                             | No data available | Water Solubility                  | Miscible          |
| Viscosity                           | No data available |                                   |                   |
| Volatility                          |                   |                                   |                   |
| Vapor Pressure                      | No data available | Vapor Density                     | No data available |
| Evaporation Rate                    | No data available |                                   |                   |
| Flammability                        |                   |                                   |                   |
| Flash Point                         | No data available | UEL                               | No data available |
| LEL                                 | No data available | Autoignition                      | No data available |
| Flammability (solid, gas)           | No data available |                                   |                   |
| Environmental                       |                   |                                   |                   |
| Octanol/Water Partition coefficient | No data available |                                   |                   |

## Section 10: Stability and Reactivity

### Reactivity

- Non-reactive under normal handling and storage conditions.

### Chemical stability

- Stable under normal temperatures and pressures.

## Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## Conditions to avoid

- Do not allow product to freeze. Heat, sparks, open flame.

## Incompatible materials

- No data available.

## Hazardous decomposition products

- Carbon and nitrogen oxides.

## Section 11 - Toxicological Information

### Information on toxicological effects

|               | CAS |                                                                                                                                                                                                                                                |
|---------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lambda 9,7 CS | NDA | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >2.23 mg/L 4 Hour(s); Skin-Rat LD50 • >5000 mg/kg;<br><b>Irritation:</b> Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating |

| GHS Properties                | Classification                                                                                                                                                                                    |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                | OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| Skin corrosion/Irritation     | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Serious eye damage/Irritation | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Skin sensitization            | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Respiratory sensitization     | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Aspiration Hazard             | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Carcinogenicity               | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Germ Cell Mutagenicity        | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| Toxicity for Reproduction     | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| STOT-SE                       | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |
| STOT-RE                       | OSHA HCS 2012 • Classification criteria not met                                                                                                                                                   |

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

#### Chronic (Delayed)

- No data available.

### Skin

#### Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

#### Chronic (Delayed)

- Prolonged or frequently repeated exposure may cause skin reactions in some individuals.

### Eye

#### Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

|                             |                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chronic (Delayed)</b>    | <ul style="list-style-type: none"> <li>No data available.</li> </ul>                                                                      |
| <b>Ingestion</b>            |                                                                                                                                           |
| <b>Acute (Immediate)</b>    | <ul style="list-style-type: none"> <li>Under normal conditions of use, no health effects are expected.</li> </ul>                         |
| <b>Chronic (Delayed)</b>    | <ul style="list-style-type: none"> <li>No data available</li> </ul>                                                                       |
| <b>Carcinogenic Effects</b> | <ul style="list-style-type: none"> <li>No component of this product present at 0.1% or greater is listed by IARC, OSHA or NTP.</li> </ul> |

## Section 12 - Ecological Information

### Toxicity

|               | CAS |                                                                                                                                                                                                                                                                                                            |
|---------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lambda 9.7 CS | NDA | <b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.06 mg/L [Acute]<br><b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0243 mg/L [Acute]<br><b>Aquatic Toxicity-Algae and Other Aquatic Plant(s):</b> 72 Hour(s) LC50 <i>Algae</i> 28.7 mg/L [Acute] |

### Persistence and degradability

- No data available

### Bioaccumulative potential

- No data available

### Mobility in Soil

- No data available

### Other adverse effects

#### Potential Environmental Effects

- This product is extremely toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

### Other Information

- No data available.

## Section 13 - Disposal Considerations

### Waste treatment methods

#### Product waste

- Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

## Section 14 - Transport Information

|     | UN number | UN proper shipping name                                                                      | Transport hazard class(es) | Packing group | Environmental hazards |
|-----|-----------|----------------------------------------------------------------------------------------------|----------------------------|---------------|-----------------------|
| DOT | UN3082    | Bulk packaging only: Environmentally hazardous substance, liquid, n.o.s (Lambda-cyhalothrin) | 9                          | III           | Marine Pollutant      |



|                  |        |                                                                                                   |   |     |                        |
|------------------|--------|---------------------------------------------------------------------------------------------------|---|-----|------------------------|
| <b>IMO/IMDG</b>  | UN3082 | Packaging 5 L or greater: Environmentally hazardous substance, liquid, n.o.s (Lambda-cyhalothrin) | 9 | III | Marine Pollutant       |
| <b>IATA/ICAO</b> | UN3082 | Packaging 5 L or greater: Environmentally hazardous substance, liquid, n.o.s (Lambda-cyhalothrin) | 9 | III | Acute Aquatic Toxicity |

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

**Other information**

**IMO/IMDG** • No data available

**IATA/ICAO** • No data available

## Section 15 - Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**SARA Hazard Classifications** • Acute, SARA Title III Section 313

**FIFRA – Pesticide Labeling**

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.

### CAUTION

**Precautionary Statements** • KEEP OUT OF THE REACH OF CHILDREN.

**Hazards to Humans and Domestic Animals**

**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. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause reactions in some individuals.

**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 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 continuing 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 • Do not give any liquid to the person • 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 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.

**Environmental Hazards** •

This product is extremely toxic to fish and other aquatic organisms. Do not contaminate water when cleaning equipment or disposing of equipment wash water. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid

household pets particularly fish and reptile pets. 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.

**Physical or Chemical Hazards** • Do not use this product in or on electrical equipment due to the possibility of shock hazard.

| Inventory          |            |      |
|--------------------|------------|------|
| Component          | CAS        | TSCA |
| Acetophenone       | 98-86-2    | Yes  |
| Lambda-cyhalothrin | 91465-08-6 | No   |

## United States

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

|                      |            |            |
|----------------------|------------|------------|
| • Acetophenone       | 98-86-2    |            |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed |

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

|                      |            |                                    |
|----------------------|------------|------------------------------------|
| • Acetophenone       | 98-86-2    | 5000 lb final RQ; 2270 kg final RQ |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed                         |

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

|                      |            |                                |
|----------------------|------------|--------------------------------|
| • Acetophenone       | 98-86-2    | 1.0 % de minimis concentration |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed                     |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

|                      |            |                                |
|----------------------|------------|--------------------------------|
| • Acetophenone       | 98-86-2    | Included in waste stream: F039 |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed                     |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

|                      |            |                   |
|----------------------|------------|-------------------|
| • Acetophenone       | 98-86-2    | waste number U004 |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed        |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

|                      |            |            |
|----------------------|------------|------------|
| • Acetophenone       | 98-86-2    |            |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

|                      |            |                                                    |
|----------------------|------------|----------------------------------------------------|
| • Acetophenone       | 98-86-2    | 0.010 mg/L (wastewater); 9.7 mg/kg (nonwastewater) |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed                                         |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

|                      |            |            |
|----------------------|------------|------------|
| • Acetophenone       | 98-86-2    |            |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed |

#### U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

|                      |            |                   |
|----------------------|------------|-------------------|
| • Acetophenone       | 98-86-2    | waste number U004 |
| • Lambda-cyhalothrin | 91465-08-6 | Not Listed        |

## Section 16 - Other Information

| Revision Summary |             |                       |
|------------------|-------------|-----------------------|
| Revision Date    | MSDS Number | Changes               |
| 14/January/2016  |             | • Section 14 revised. |

**Revision Date** • 14/January/2016

**Last Revision Date** • 11/May/2015

**Preparation Date** • 11/May/2015

**Disclaimer/Statement of Liability** •  
 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.

# SAFETY DATA SHEET



## MAXFORCE® FLEET™

Version 3.0 / USA  
102000031112

1/11  
Revision Date: 12/10/2021  
Print Date: 12/14/2021

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

|                      |                  |
|----------------------|------------------|
| Trade name           | MAXFORCE® FLEET™ |
| Product code (UVP)   | 84897086         |
| SDS Number           | 102000031112     |
| EPA Registration No. | 432-1264         |

#### 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

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### 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 |
|--------------------------|-------------|---------------------------|
| Fipronil                 | 120068-37-3 | 0.001                     |

# SAFETY DATA SHEET



## MAXFORCE® FLEET™

Version 3.0 / USA  
102000031112

2/11

Revision Date: 12/10/2021  
Print Date: 12/14/2021

### 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.

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| <b>Suitable</b>   | Water, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry chemical |
| <b>Unsuitable</b> | High volume water jet                                        |

**Special hazards arising from the substance or mixture** 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** Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

# SAFETY DATA SHEET



## MAXFORCE® FLEET™

Version 3.0 / USA  
102000031112

3/11  
Revision Date: 12/10/2021  
Print Date: 12/14/2021

|                           |                     |
|---------------------------|---------------------|
| Flash point               | 93.4 °C / 200.12 °F |
| Auto-ignition temperature | No data available   |
| Lower explosion limit     | No data available   |
| Upper explosion limit     | No data available   |
| Explosivity               | Not explosive       |

## 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** 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.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**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**

# SAFETY DATA SHEET



## MAXFORCE® FLEET™

Version 3.0 / USA  
102000031112

4/11

Revision Date: 12/10/2021  
Print Date: 12/14/2021

### 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    |
|------------|-------------|----------------------------------|--------|----------|
| Fipronil   | 120068-37-3 | 0.035 mg/m <sup>3</sup><br>(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

Respiratory protection is not required under anticipated circumstances of exposure.

#### Hand protection

Chemical resistant nitrile rubber gloves

#### Eye protection

Use tightly sealed goggles and face protection.

#### 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.  
Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                     |                           |
|---------------------|---------------------------|
| Form                | gel                       |
| Colour              | light yellow              |
| Odor                | sweet                     |
| Odour Threshold     | No data available         |
| pH                  | 4.5 - 5.5 (100 %) (55 °C) |
| Melting point/range | 60 °C / 140 °F            |
| Boiling Point       | No data available         |
| Flash point         | 93.4 °C / 200.12 °F       |
| Flammability        | No data available         |

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|                                                           |                                    |
|-----------------------------------------------------------|------------------------------------|
| <b>Auto-ignition temperature</b>                          | No data available                  |
| <b>Thermal decomposition</b>                              | Not applicable                     |
| <b>Minimum ignition energy</b>                            | Not applicable                     |
| <b>Self-accelarating decomposition temperature (SADT)</b> | No data available                  |
| <b>Upper explosion limit</b>                              | No data available                  |
| <b>Lower explosion limit</b>                              | No data available                  |
| <b>Vapor Pressure</b>                                     | No data available                  |
| <b>Evaporation rate</b>                                   | No data available                  |
| <b>Relative vapour density</b>                            | No data available                  |
| <b>Relative density</b>                                   | No data available                  |
| <b>Density</b>                                            | ca. 1.27 g/cm <sup>3</sup> (20 °C) |
| <b>Water solubility</b>                                   | soluble                            |
| <b>Partition coefficient: n-octanol/water</b>             | Not applicable                     |
| <b>Viscosity, dynamic</b>                                 | No data available                  |
| <b>Viscosity, kinematic</b>                               | No data available                  |
| <b>Explosivity</b>                                        | Not explosive                      |

## 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 dangerous reaction known under conditions of normal use.           |
| <b>Conditions to avoid</b>                | Extremes of temperature and direct sunlight.<br>Exposure to moisture. |
| <b>Incompatible materials</b>             | Strong bases, Strong acids, Strong oxidizing agents                   |
| <b>Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use.    |



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### SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes** Ingestion, Skin contact, Eye contact

#### Immediate Effects

**Skin** May be minimally irritating following prolonged direct contact.

**Ingestion** May be harmful if swallowed.

#### Information on toxicological effects

**Acute oral toxicity** LD50 (Rat) > 5,000 mg/kg

**Acute inhalation toxicity**  
No data available

**Acute dermal toxicity** LD50 (Rat) > 5,000 mg/kg

**Skin corrosion/irritation** slight irritation (Rabbit)

**Serious eye damage/eye irritation** Minimally irritating. (Rabbit)

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)

#### Assessment STOT Specific target organ toxicity – single exposure

Fipronil: Based on available data, the classification criteria are not met.

#### Assessment STOT Specific target organ toxicity – repeated exposure

Fipronil caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. Fipronil caused neurobehavioral effects and/or neuropathological changes in animal studies.

#### Assessment mutagenicity

Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Fipronil caused an increased incidence of tumours in rats in the following organ(s): Thyroid. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

#### ACGIH

None.

#### NTP

None.

#### IARC

None.

#### OSHA

None.

#### Assessment toxicity to reproduction

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Fipronil 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 Fipronil is related to parental toxicity.

### Assessment developmental toxicity

Fipronil did not cause developmental toxicity in rats and rabbits.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity to fish

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) = 0.0852 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient fipronil.

### Chronic toxicity to fish

*Cyprinodon variegatus* (sheepshead minnow)  
Early-life Stage  
NOEC: = 0.0029 mg/l  
Exposure time: 35 d  
The value mentioned relates to the active ingredient fipronil.

*Oncorhynchus mykiss* (rainbow trout)  
Early-life Stage  
NOEC: = 0.015 mg/l  
Exposure time: 90 d  
The value mentioned relates to the active ingredient fipronil.

### Toxicity to aquatic invertebrates

EC50 (*Daphnia magna* (Water flea)) = 0.19 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient fipronil.

LC50 (*Mysidopsis bahia* (mysid shrimp)) = 0.00014 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient fipronil.

### Chronic toxicity to aquatic invertebrates

NOEC (*Mysidopsis bahia* (mysid shrimp)): = 0.0077 µg/l  
Life Cycle; Exposure time: 28 d  
The value mentioned relates to the active ingredient fipronil.

NOEC (*Daphnia magna* (Water flea)): = 0.0098 mg/l  
Exposure time: 21 d  
The value mentioned relates to the active ingredient fipronil.

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|                                           |                                                                                                                                                                                                                                              |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicity to aquatic plants</b>         | EC50 (Desmodesmus subspicatus (green algae)) = 0.068 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient fipronil.                                                                                           |
|                                           | NOEC (Desmodesmus subspicatus (green algae)) = 0.040 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient fipronil.                                                                                           |
|                                           | NOEC (Lemna gibba (gibbous duckweed)) = 0.16 mg/l<br>Exposure time: 14 d<br>The value mentioned relates to the active ingredient fipronil.                                                                                                   |
| <b>Biodegradability</b>                   | Fipronil:<br>Not rapidly biodegradable                                                                                                                                                                                                       |
| <b>Koc</b>                                | Fipronil: Koc: 427 - 1278                                                                                                                                                                                                                    |
| <b>Bioaccumulation</b>                    | Fipronil: Bioconcentration factor (BCF) 321<br>Does not bioaccumulate.                                                                                                                                                                       |
| <b>Mobility in soil</b>                   | Fipronil: Slightly mobile in soils                                                                                                                                                                                                           |
| <b>Results of PBT and vPvB assessment</b> |                                                                                                                                                                                                                                              |
| <b>PBT and vPvB assessment</b>            | 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 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>Apply this product as specified on the label. |

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | Follow container label instructions for disposal of wastes generated during use in compliance with the product label.<br>Never place unused product down any indoor or outdoor drain.                   |
| <b>Contaminated packaging</b> | Do not re-use empty containers.<br>Place empty container in trash.<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

49CFR

Not dangerous goods / not hazardous material

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### IMDG

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| UN number            | 3082                                                                          |
| Class                | 9                                                                             |
| Packaging group      | III                                                                           |
| Marine pollutant     | YES                                                                           |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(FIPRONIL SOLUTION) |

### IATA

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| UN number                | 3082                                                                           |
| Class                    | 9                                                                              |
| Packaging group          | III                                                                            |
| Environm. Hazardous Mark | YES                                                                            |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(FIPRONIL SOLUTION ) |

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. 432-1264

### US Federal Regulations

#### TSCA list

|                 |           |
|-----------------|-----------|
| Water           | 7732-18-5 |
| Sucrose         | 57-50-1   |
| 1,2-Propanediol | 57-55-6   |

### 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).

|                        |          |                      |
|------------------------|----------|----------------------|
| N-Methyl-2-pyrrolidone | 872-50-4 | Developmental toxin. |
|------------------------|----------|----------------------|

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### US State Right-To-Know Ingredients

|                 |         |        |
|-----------------|---------|--------|
| Sucrose         | 57-50-1 | MN, RI |
| 1,2-Propanediol | 57-55-6 | 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:** May be harmful if swallowed.  
Avoid contact with skin and clothing.  
Keep exposed gel away from open food and food contact surfaces.  
Wash thoroughly with soap and water after handling.

## 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                                             |

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### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Instability - 0      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      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 14: Transport Information.

**Revision Date:** 12/10/2021

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.

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### 1. Product and Company Identification

Company

BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Registrant:

Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis, MO 63122

Substance number: 000000396153  
Synonyms: Abamectin B1

### 2. Hazards Identification

Emergency overview

CAUTION:  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
HARMFUL IF SWALLOWED.  
HARMFUL IF ABSORBED THROUGH SKIN.  
Avoid inhalation of dusts.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: solid  
Colour: yellow  
Odour: almost odourless

Potential health effects**Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Acute toxicity:**

Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact.

**Irritation / corrosion:**

May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.

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### **Sensitization:**

Skin sensitizing effects were not observed in animal studies.

## 3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>    |
|-------------------|----------------------|-------------------------|
| 71751-41-2        | 0.011 %              | Abamectin               |
|                   | 99.989 %             | Proprietary ingredients |

## 4. 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.

## 5. Fire-Fighting Measures

### **Suitable extinguishing media:**

foam, dry powder, carbon dioxide

### **Hazards during fire-fighting:**

carbon monoxide, carbon dioxide,  
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.

### **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:**

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.



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### **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').

### **Cleanup:**

Dike spillage. Sweep/shovel up. Avoid raising dust. Use wet cleaning methods when applicable. 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

### Handling

#### **General advice:**

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:**

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.

### Storage

#### **General advice:**

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.

#### **Storage incompatibility:**

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

#### **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.

---

## 8. Exposure Controls and 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:

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### 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. 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:                                               | granules         |                                  |
| Odour:                                              | almost odourless |                                  |
| Colour:                                             | yellow           |                                  |
| Vapour pressure:                                    |                  | The product has not been tested. |
| Vapour density:                                     |                  | negligible                       |
| Partitioning coefficient n-octanol/water (log Pow): |                  | not determined                   |
| Solubility in water:                                |                  | not applicable                   |
|                                                     |                  | insoluble                        |

## 10. Stability and Reactivity

### 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. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

### Substances to avoid:

caustics

### Hazardous reactions:

The product is chemically stable.

### 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.

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### 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.

### Corrosion to metals:

Corrosive effects to metal are not anticipated.

## 11. Toxicological information

### Acute toxicity

#### Oral:

Type of value: LD50  
Species: rat  
Value: > 5,000 mg/kg

#### Inhalation:

Not inhalable due to the physico-chemical properties of the product.

#### Dermal:

Type of value: LD50  
Species: rabbit  
Value: > 2,000 mg/kg

### Irritation / corrosion

#### Skin:

Species: rabbit

#### Eye:

Species: rabbit  
Result: mildly irritating

### Sensitization:

Species: guinea pig  
Result: Non-sensitizing.

### Genetic toxicity

*Information on: Abamectin*

*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

*Information on: Abamectin*

*In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

### Reproductive toxicity

*Information on: Abamectin*

*The results of animal studies suggest a fertility impairing effect with high doses.*

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### Development:

*Information on: Abamectin*

*Causes developmental effects in animals at high, maternally toxic doses.*

## 12. Ecological Information

### Fish

*Information on: Abamectin*

*Acute:*

*Oncorhynchus mykiss/LC50 (96 h): 0.0036 mg/l*

### Aquatic invertebrates

*Information on: Abamectin*

*Acute:*

*Daphnia magna/EC50 (48 h): 0.00034 mg/l*

### Aquatic plants

*Information on: Abamectin*

*Toxicity to aquatic plants:*

*OECD Guideline 201 static*

*green algae/EC50 (72 h): > 6.1 mg/l*

*Not readily biodegradable (by OECD criteria).*

## 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.

### 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

Reference Bill of Lading

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

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EPCRA 311/312 (Hazard categories):

Acute; Chronic

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### 16. Other Information

**Refer to product label for EPA registration number.**

Recommended use: insecticide

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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**MSDS Prepared by:**

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2011/07/19

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END OF DATA SHEET

Treats up to 1000 sq ft per Pound

# InTice<sup>10</sup>

## perimeter bait

**Kills Roaches, Crickets, Mole Crickets, Sowbugs, Pillbugs, Earwigs, Silverfish, Millipedes, Snails, Slugs and Ants\***

\*Except Pharaoh Ants, Fire Ants, Harvester Ants

**For Indoor, Outdoor, & Turf Uses**  
**Mold & Moisture Resistant**  
**Ready-to-Use Bait**

Active Ingredient: Orthoboric Acid ....10%  
Other Ingredients:.....90%  
Total:.....100%

**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 hands before eating, drinking, chewing gum, using tobacco or using the toilet. In the State of California: Personal Protective Equipment (PPE) Applicators and handlers must wear: shoes plus socks.

#### 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. Have the product or label with you when calling a Poison Control Center or doctor or going for treatment. In case of emergency, for additional information call 800 858 7378.

**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.

EPA Reg. No.: 73079-6  
EPA Est. No.: 73079-MO-1  
Net Contents: 1, 4, 10, 40 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 food areas of restaurants, residential, health care, educational, daycare, agricultural buildings, animal rearing and handling establishments, food handling and food processing establishments, 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.

**Use Sites:** In and around residential, multi-family, commercial, industrial, municipal, institutional, research, recreational, health care, educational, daycare, hospitality and agricultural buildings and other man-made structures, garages, home greenhouses, landscape beds, transport vehicles, sewers, animal rearing and handling establishments and food handling and food processing establishments. Turf sites include lawns, ornamental turf, parks, playing fields, right-of-ways, and golf courses. Turf use not allowed in the State of California.

#### Outdoor Application

Apply bait at a rate of 1 lb (about 3 cups) per 1000 square feet. Apply in a band from two up to four feet wide around the perimeter of buildings. Also apply around exterior light fixtures and along the edges of sidewalks, patios and driveways and under decks. Apply bait early in the season in areas likely to be infested, such as mulch beds, flowerbeds, fruit and vegetable gardens, compost heaps, wood piles, and around trees, stumps and trash areas. The bait may also be sprinkled in and around rodent bait stations to control insects that harbor in these stations. When treating for ants, apply 1/4 to 1 oz of bait around ant mounds and sprinkle along foraging trails. For ants, pay particular attention to harborage areas and apply bait around trees and stumps, in tree cavities, in and around firewood piles, around landscaping stones and in mulch beds. Bait may also be applied in insect bait stations. Reapply bait after one week if infestation is still present. In home greenhouses, apply bait at a rate of 3 oz (2/3 cups) per 100 sq ft on and under benches. Do not apply bait directly in flats or pots. Reapply as needed.

**For Carpenter Ants:** Evenly apply bait at a rate of 14 oz by weight (3 cups) per 100 sq ft. Apply in a band not to exceed one foot in width around trees and stumps, firewood piles, structure foundations and other potential nest sites. The bait may also be applied in tree cavities and firewood piles, and under porches and decks. Do not apply more than 2 lbs per 1000 sq ft of total site area, or 90 lbs per acre.

**Sewer Application:** Apply bait along ledges inside sewers and around manhole covers.

#### Indoor Application

Apply bait only in areas inaccessible to children and pets, or in tamper-resistant bait stations. Apply bait at a rate of 3 oz (2/3 cup) per 100 square feet. Using a hand shaker or duster, apply bait in attics, crawl spaces, trash closets, utility closets, dropped ceilings, on dirt or gravel cellar floors, under and behind appliances and vending machines, in wall voids and voids under and behind cabinets, sinks and tubs, in drawer wells, garbage chutes, pipe chases, elevator pits, around drains, around electrical conduits and in cracks and crevices where insects may harbor. For crack and crevice treatments, use a duster and apply 1 to 3 puffs per linear foot based on level of infestation. Focus application in areas where insects or their signs are seen. Reapply bait after one week if infestation is still present. A power duster may be used to apply bait in appropriate areas, such as attics and crawlspaces. The duster manufacturer's recommendations for settings should be followed.

#### Application tips for certain sites follow:

1. In attics, be sure to get bait 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. Attics

should have proper ventilation to insure that no food odor from the bait seeps into the living area, particularly in hot weather. If in doubt, apply the product in a manner such that it can be easily removed.

2. When treating cabinetry areas, if there is no gap between the lower cabinets and the kickplate, 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 bait dusted into drawer wells. Do not leave any bait exposed when drawers are replaced.
4. Electrical switch plate covers can be removed to allow access to voids, but bait must not 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 bait. If practical, these areas can be 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. As a separate matter from the use of this product, it is advisable to fix any leaks to minimize structural damage and odors, and to prevent potential chronic insect problems.

To help prevent insect problems from developing in homes and buildings, a preventative program is recommended. Once per quarter, apply bait in a band around the outside building perimeter. Once per year, apply bait in attics and crawlspaces. Follow Indoor/Outdoor Application Directions above.

#### Food Processing and Handling Establishment Application, including Federally-

**Inspected Meat and Poultry Plants:** Follow instructions for other sites as appropriate. In food areas, only apply bait in cracks, crevices, and other inaccessible areas. Do not contaminate food and feedstuffs. Never apply bait directly to a surface where food is stored, prepared or served. Any bait that is left visible after treatment must be swept into cracks and crevices or removed.

#### Turf Application (Except in the State of California)

Apply bait evenly over the affected area at a rate of 1 lb per 1000 sq ft or 45 lbs per acre. Do not water the bait in. For mole cricket treatments, results will be best if the area is irrigated prior to bait treatment. Mole crickets typically come to the surface to feed in the evening.

#### Storage and Disposal

##### For 10 lb and 40 lb containers:

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 or refill 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.

##### Or, for 1 lb and 4 lb containers:

This storage/application container may be refilled by the end-user of the product. Refill only with InTice 10 Perimeter Bait.

**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 or 1-800-CLEANUP which is managed as a public-private partnership.

Green Zone is not a third party certification.



**Control  
Solutions Inc.**

A member of the ADAMA Group

|              |       |    |             |
|--------------|-------|----|-------------|
| HYDROPRENE   | GROUP | 7A | INSECTICIDE |
| NOVALURON    | GROUP | 15 | INSECTICIDE |
| PYRIPROXYFEN | GROUP | 7  | INSECTICIDE |

# TEKKO TRIO FOAM

## Pressurized Solutions

- Aerosol with three Insect Growth Regulators
- Breaks the life cycle of drain flies
- Labeled for use in food areas of food handling establishments
- Inhibits reinfestation by cockroaches for 6 months

### ACTIVE INGREDIENTS:

|                      |       |
|----------------------|-------|
| (S)-Hydroprene ..... | 0.36% |
| Novaluron .....      | 0.02% |
| Pyriproxyfen .....   | 0.02% |

**OTHER INGREDIENTS:** ..... **99.6%**

**TOTAL:** ..... **100.00%**



ADAMA

Consumer &  
Professional  
Solutions

Manufactured for:  
Control Solutions, Inc.  
5903 Genoa Red Bluff  
Pasadena, TX 77507

EPA Reg. No: 53883-475

EPA Est. No: \_\_\_\_\_

Net Contents: \_\_\_\_\_

SHAKE WELL BEFORE USE.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

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.)

| 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.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
| HOT LINE 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 SafetyCall® (866) 897-8050 for emergency medical treatment information. |                                                                                                                                                                                                                                                                                                 |

**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.

**DIRECTIONS FOR USE**

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

**Restrictions**

- For indoor use only, DO NOT use outdoors. READ ALL DIRECTIONS COMPLETELY BEFORE USE.

**Resistance Management**

For resistance management, this product contains Group 7, 7A and 15 insecticides. Any insect population may contain individuals naturally resistant to this product and other Group 7, 7A and 15 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 take 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 classification 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, crop rotation, 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 extension specialist or certified crop advisor 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 your local extension specialist or sales representative.



## **PRODUCT INFORMATION**

TEKKO TRIO FOAM contains three Insect Growth Regulators in a dry foam formulation. The dry foam formulation reduces the chances of missed areas and ensures complete coverage of an area. The IGRs in TEKKO TRIO FOAM disrupt the normal development of immature cockroaches, drain flies, fruit flies, bed bugs, fleas, 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, saw-tooth grain beetles, warehouse beetles, cigarette beetles, and Dermestid beetles). TEKKO TRIO FOAM prevents future generations of bed bugs and cockroaches. TEKKO TRIO FOAM also disrupts the normal life cycle of drain flies, fruit flies, and stored product pests; thus, killing these insects during the pupal stage. In both cases, the cycle of an infestation ends.

Use in areas including: apartment buildings, bakeries, bottling facilities, breweries, boiler rooms, cafeterias, candy plants, grocery stores, day care centers, hospitals, residential homes, hotels/motels, office buildings, kitchens, laboratories, cereal processing facilities, manufacturing plants, mausoleums, meat and produce canneries, nursing homes, restaurants, schools, locker rooms, stores, taverns, warehouses, pet stores, as well as various modes of transportation, such as aircraft cargo areas and galleys, buses, trucks, trailers, rail cars, and marine vessels.

Use as a surface spray, spot, or crack and crevice application.

Prior to using in commercial or residential 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 are also to be followed for residential use.

TEKKO TRIO FOAM is non-repellent and should be considered an important component in a cockroach baiting program. Baits are an important part of a total cockroach control program but are not a complete solution. TEKKO TRIO FOAM can reach those nymphs that fail to forage to baits and the IGRs stimulate egg-bearing females to leave the harborage and feed.

TEKKO TRIO FOAM is a ready-to-use pressurized spray for application to a variety of locations and surfaces to control pests. Apply as a surface spray, spot, or crack and crevice application. Use the supplied fold up extension tube for crack and crevice applications.

**To apply as a surface or spot application,** hold can 10" to 12" away from surface to be treated. Use a sweeping motion over the surface to be treated for complete coverage. Product applies as a dry foam that stays where you spray and does not run.

**For crack and crevice applications,** use the supplied fold up extension tube and apply to wall voids, hollow table legs, tube iron, gondola frames, voids, supports and other areas where pests may harbor. TEKKO TRIO FOAM is generally nonstaining, but in questionable situations, apply a small amount in an inconspicuous location. Apply once a month for continuous protection, or more often if conditions warrant.

## **SURFACE APPLICATION**

Apply foam on surfaces at a rate of [15 ounces per 1125 sq ft] [16 ounces per 1200 sq ft] of surface area. Apply to areas such as: walls, floors, ceilings, attics, basements, gondolas, shelving and other areas where pests may harbor. The dry foam formulation will adhere to the undersides of shelving, cabinets, drawers, and other areas pests accumulate. Treat these areas thoroughly.

## **SPOT OR CRACK AND CREVICE APPLICATIONS**

Apply dry foam as a crack and crevice application using the supplied fold up extension tube. Apply directly to areas such as: wall voids, pipe chases, crevices, false ceilings and other areas where pests may harbor. Apply spot treatments to areas such as: storage areas, closets, around water pipes, doors, windows, and

behind and under appliances/equipment, furniture and beds. The dry foam formulation allows penetration deep into cracks and crevices to reach infestations that are not observed.

### **CONTROL OF BEDBUGS**

To treat bedbugs, apply to harborage points mentioned above; in addition, under beds, bottom side of box springs, under and behind night stands, to points where carpet and wall meet, cracks in cove base, molding, and other areas where bed bugs harbor. The foam formulation reduces the chances of missed harborage areas. Retreat at 14 days for heavy infestations.

### **Restrictions**

- Do not treat linens and mattresses

### **CONTROL OF FLEAS**

The active ingredients in this product are (S)-hydroprene, Novaluron and Pyriproxyfen, which are insect growth regulators. Insect growth hormones are naturally occurring in insects and this product prevents the adult pest from developing. These properties will gradually result in the reduction and eventual control of the pest infestation. Flea eggs and flea larvae that come into contact with this product will also not develop into adult fleas. This product works for up to 7 months on fleas by inhibiting the development of the immature stages of the flea and preventing them from reaching the biting adult stage. This product does not work on adult fleas and flea pupae that already exist.

| Use Sites           | Use Directions                                                                                                                                                                                              |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface Application | For use on carpets, furniture, pet sleeping areas & throw rugs, etc.<br><br>Repeat treatment every 7 months as necessary.<br><br>If needed, repeat treatments may be made 21 days after previous treatment. |

### **WAREHOUSES (NON-FOOD) APPLICATIONS**

Apply as a surface, spot, or crack and crevice treatment in non-food storage warehouses. Apply to all areas that may harbor pests, including under and between pallets. Apply foam to undersides of shelving and storage areas.

### **FOOD HANDLING ESTABLISHMENT APPLICATIONS**

Apply as a surface spray, 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.).

For control of drain flies and fruit flies: Apply to areas of fly breeding. For drains, apply foam into and around the downspout and catch basin area. Coat these areas thoroughly as fly larva develop in the scum buildup on the sides of drain pipes. Visible foam formulation ensures no areas are missed. Repeat applications at 2 to 4 week intervals depending upon the severity of infestation.

### **SPOT OR 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, but applications may be made above these areas due to the no-drip formulation. Spot or crack and crevice applications can be made while facility is in operation.

**SURFACE SPRAY APPLICATION RESTRICTION:** Do not apply directly to food products.

**AREA TREATMENTS:** Prior to application, remove or cover all food items.

**PARTIAL AREA TREATMENTS:** For applications during facility operation, apply to partial areas of food handling establishments in cases of small or localized infestations.

#### **PANTRY/CABINETS, SMALL FOOD STORAGE AREAS**

Apply foam as a surface spray, crack and crevice spray, or spot treatment to pantry and cupboard shelves or other areas where food is stored. Be sure to treat the undersides of shelving.

##### **Restrictions**

- Prior to spraying, remove all food containers and foodstuffs
- Do not replace food containers or foodstuffs until spray has dried
- Dispose of any infested food packages or materials

#### **WAREHOUSES (FOOD)**

Apply as a surface spray, 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.

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.

**PESTICIDE 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.

#### **LIMITATIONS OF LIABILITY**

To the extent consistent with applicable law, 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 Control Solutions, Inc.'s election, the replacement of the product.

# SAFETY DATA SHEET



## TEMPRID® FX INSECTICIDE

Version 3.0 / USA  
102000019505

1/12  
Revision Date: 01/11/2017  
Print Date: 01/12/2017

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

Trade name TEMPRID® FX INSECTICIDE

Product code (UVP) 79521359

SDS Number 102000019505

EPA Registration No. 432-1544

#### 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  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

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

Acute toxicity(Oral, Inhalation): Category 4

#### Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

#### Hazard statements

Harmful if swallowed or if inhaled

#### Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing mist and spray.

# SAFETY DATA SHEET



## TEMPRID® FX INSECTICIDE

Version 3.0 / USA  
102000019505

2/12  
Revision Date: 01/11/2017  
Print Date: 01/12/2017

Use only outdoors or in a well-ventilated area.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
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 |
|----------------------------------------------------------------------------------------|-------------|---------------------------|
| Imidacloprid                                                                           | 138261-41-3 | 21.0                      |
| Beta-Cyfluthrin                                                                        | 68359-37-5  | 10.5                      |
| Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt | 68425-94-5  | 2.4                       |

## 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

**Symptoms** To date no symptoms are known.

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

# SAFETY DATA SHEET



## TEMPRID® FX INSECTICIDE

Version 3.0 / USA  
102000019505

3/12  
Revision Date: 01/11/2017  
Print Date: 01/12/2017

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|                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <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> | Water spray, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry chemical |
|-----------------|--------------------------------------------------------------------|

|                   |             |
|-------------------|-------------|
| <b>Unsuitable</b> | None known. |
|-------------------|-------------|

|                                                              |                                                     |
|--------------------------------------------------------------|-----------------------------------------------------|
| <b>Special hazards arising from the substance or mixture</b> | Dangerous gases are evolved in the event of a fire. |
|--------------------------------------------------------------|-----------------------------------------------------|

#### Advice for firefighters

|                                                      |                                                                                                          |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Special protective equipment for firefighters</b> | Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------|

|                            |                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Further information</b> | 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. |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |           |
|--------------------|-----------|
| <b>Flash point</b> | > 93.3 °C |
|--------------------|-----------|

|                                  |                 |
|----------------------------------|-----------------|
| <b>Auto-ignition temperature</b> | 360 °C / 680 °F |
|----------------------------------|-----------------|

|                              |                   |
|------------------------------|-------------------|
| <b>Lower explosion limit</b> | No data available |
|------------------------------|-------------------|

|                              |                   |
|------------------------------|-------------------|
| <b>Upper explosion limit</b> | No data available |
|------------------------------|-------------------|

|                    |                                             |
|--------------------|---------------------------------------------|
| <b>Explosivity</b> | Not explosive<br>92/69/EEC, A.14 / OECD 113 |
|--------------------|---------------------------------------------|

---

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Precautions</b> | 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> | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                          |                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Additional advice</b> | Use personal protective equipment. If material is accidentally spilled, do not allow to enter soil, waterways or waste water canal. |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

# SAFETY DATA SHEET



## TEMPRID® FX INSECTICIDE

Version 3.0 / USA  
102000019505

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Revision Date: 01/11/2017  
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**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** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**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    |
|-------------------------------------|-------------|---------------------|---------|----------|
| Imidacloprid                        | 138261-41-3 | 50ug/m3<br>(ST ESL) | 07 2011 | TX ESL   |
| Imidacloprid                        | 138261-41-3 | 5ug/m3<br>(AN ESL)  | 07 2011 | TX ESL   |
| Imidacloprid                        | 138261-41-3 | 0.7 mg/m3<br>(TWA)  |         | OES BCS* |
| Beta-Cyfluthrin                     | 68359-37-5  | 5ug/m3<br>(AN ESL)  | 03 2014 | TX ESL   |
| Beta-Cyfluthrin                     | 68359-37-5  | 50ug/m3<br>(ST ESL) | 03 2014 | TX ESL   |
| Beta-Cyfluthrin                     | 68359-37-5  | 0.01 mg/m3<br>(TWA) |         | OES BCS* |
| Glycerine<br>(Respirable fraction.) | 56-81-5     | 5 mg/m3<br>(PEL)    | 02 2006 | OSHA Z1  |
| Glycerine<br>(Total dust.)          | 56-81-5     | 15 mg/m3<br>(PEL)   | 02 2006 | OSHA Z1  |

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|                                                      |         |                                   |         |        |
|------------------------------------------------------|---------|-----------------------------------|---------|--------|
| Glycerine<br>(Respirable fraction and dust or fume.) | 56-81-5 | 5 mg/m <sup>3</sup><br>(TWA)      | 06 2008 | TN OEL |
| Glycerine<br>(Total dust and mist.)                  | 56-81-5 | 10 mg/m <sup>3</sup><br>(TWA)     | 06 2008 | TN OEL |
| Glycerine                                            | 56-81-5 | 5ug/m <sup>3</sup><br>(AN ESL)    | 03 2014 | TX ESL |
| Glycerine                                            | 56-81-5 | 1000ug/m <sup>3</sup><br>(ST ESL) | 03 2014 | TX ESL |
| Glycerine                                            | 56-81-5 | 50ug/m <sup>3</sup><br>(ST ESL)   | 03 2014 | TX ESL |
| Glycerine                                            | 56-81-5 | 100ug/m <sup>3</sup><br>(AN ESL)  | 03 2014 | TX ESL |

\*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.

Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                         |                                 |
|-------------------------|---------------------------------|
| Appearance              | white to beige                  |
| Physical State          | suspension                      |
| Odor                    | characteristic                  |
| Odour Threshold         | No data available               |
| pH                      | ca. 6.9 at 10 %                 |
| Vapor Pressure          | No data available               |
| Vapor Density (Air = 1) | No data available               |
| Density                 | 1.16 g/cm <sup>3</sup> at 20 °C |



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|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Evaporation rate                       | No data available                           |
| Boiling Point                          | No data available                           |
| Melting / Freezing Point               | No data available                           |
| Water solubility                       | dispersible                                 |
| Minimum Ignition Energy                | Not applicable                              |
| Decomposition temperature              | Not applicable                              |
| Partition coefficient: n-octanol/water | No data available                           |
| Viscosity                              | 500 - 1,100 mPa.s                           |
| Flash point                            | > 93.3 °C                                   |
| Auto-ignition temperature              | 360 °C / 680 °F                             |
| Lower explosion limit                  | No data available                           |
| Upper explosion limit                  | No data available                           |
| Explosivity                            | Not explosive<br>92/69/EEC, A.14 / OECD 113 |

## SECTION 10: STABILITY AND REACTIVITY

|                                    |                                                                    |
|------------------------------------|--------------------------------------------------------------------|
| Reactivity                         |                                                                    |
| Thermal decomposition              | Not applicable                                                     |
| Chemical stability                 | Stable under normal conditions.                                    |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.        |
| Conditions to avoid                | Extremes of temperature and direct sunlight.                       |
| Incompatible materials             | No data available                                                  |
| Hazardous decomposition products   | No decomposition products expected under normal conditions of use. |

## SECTION 11: TOXICOLOGICAL INFORMATION

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Exposure routes   | Skin Absorption, Eye contact, Ingestion                        |
| Immediate Effects |                                                                |
| Eye               | Moderate eye irritation.                                       |
| Skin              | Harmful if absorbed through skin. May cause slight irritation. |

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**Ingestion** Harmful if swallowed.

### Information on toxicological effects

**Acute oral toxicity** LD50 (female Rat) > 1,044 mg/kg

**Acute inhalation toxicity** LC50 (Rat) > 2.03 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.  
highest concentration tested  
No deaths

**Acute dermal toxicity** LD50 (Rat) > 2,000 mg/kg

**Skin irritation** slight irritation (Rabbit)

**Eye irritation** Mild eye irritation. (Rabbit)

**Sensitisation** Non-sensitizing. (Guinea pig)

### Assessment STOT Specific target organ toxicity – repeated exposure

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.  
The toxic effects of Beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

### Assessment mutagenicity

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.  
Beta-Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.  
Beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

None.

### 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.  
Beta-Cyfluthrin 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 Beta-Cyfluthrin is related to parental toxicity.

### Assessment developmental toxicity

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Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.  
Beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Beta-Cyfluthrin are related to maternal toxicity.

### 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.  
LC50 (Oncorhynchus mykiss (rainbow trout)) 0.000068 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient beta-cyfluthrin.

### 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.  
LC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l  
Exposure time: 24 h  
The value mentioned relates to the active ingredient imidacloprid.  
EC50 (Daphnia magna (Water flea)) 0.00029 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient beta-cyfluthrin.

### Toxicity to aquatic plants

EC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l  
Growth rate; Exposure time: 72 h  
The value mentioned relates to the active ingredient imidacloprid.  
IC50 (Desmodesmus subspicatus (green algae)) > 0.01 mg/l  
Growth rate; Exposure time: 72 h  
The value mentioned relates to the active ingredient beta-cyfluthrin.  
No acute toxicity was observed at its limit of water solubility.

### Biodegradability

Imidacloprid:  
Not rapidly biodegradable  
Beta-Cyfluthrin:  
Not rapidly biodegradable

### Koc

Imidacloprid: Koc: 225  
Beta-Cyfluthrin: Koc: 508 - 3179

### Bioaccumulation

Imidacloprid:  
Does not bioaccumulate.  
Beta-Cyfluthrin: Bioconcentration factor (BCF) 506

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|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | Does not bioaccumulate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Mobility in soil</b>          | Imidacloprid: Moderately mobile in soils<br>Beta-Cyfluthrin: Immobile in soil                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <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>Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.<br>Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.<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.<br>Never place unused product down any indoor or outdoor drain.<br>Follow advice on product label and/or leaflet.                                                                                                 |
| <b>Contaminated packaging</b> | Do not re-use empty containers.<br>Triple rinse containers.<br>Add washings to sprayer at time of filling.<br>Puncture container to avoid re-use.<br>Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.<br>If burned, stay out of smoke.<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

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| <b>49CFR</b>         | Not dangerous goods / not hazardous material                                                    |
| <b>IMDG</b>          |                                                                                                 |
| UN number            | <b>3082</b>                                                                                     |
| Class                | 9                                                                                               |
| Packaging group      | III                                                                                             |
| Marine pollutant     | YES                                                                                             |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION) |

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### IATA

|                          |                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------|
| UN number                | 3082                                                                                                |
| Class                    | 9                                                                                                   |
| Packaging group          | III                                                                                                 |
| Environm. Hazardous Mark | YES                                                                                                 |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION ) |

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.

## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-1544

### US Federal Regulations

#### TSCA list

Naphthalene and alkyl naphthalene 68425-94-5  
sulphonic acids formaldehyde  
condensate, sodium salt

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**  
None.

### SARA Title III - Section 302 - Notification and Information

None.

### SARA Title III - Section 313 - Toxic Chemical Release Reporting

Beta-Cyfluthrin 68359-37-5

### US States Regulatory Reporting

#### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

### US State Right-To-Know Ingredients

Beta-Cyfluthrin 68359-37-5 NJ, RI

### Canadian Regulations

#### Canadian Domestic Substance List

None.

### Environmental

#### CERCLA

None.

### Clean Water Section 307 Priority Pollutants

None.

### Safe Drinking Water Act Maximum Contaminant Levels

None.

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### 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 absorbed through skin.  
Harmful if swallowed.  
Moderate eye irritation.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

## 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 - 1      Instability - 0      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Reviewed and updated for general editorial purposes. The following sections have been revised: Section 2: Hazards Identification.

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The Chemical Company

# Safety Data Sheet

## ALPINE DUST INSECTICIDE

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### 1. Product and Company Identification

#### Company

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

#### 24 Hour Emergency Response Information

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

#### Registrant:

Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis, MO 63122

Substance number: 000000395727  
Synonyms: Dinotefuran

### 2. Hazards Identification

#### Emergency overview

CAUTION:  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
Moderately irritating to the eyes.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: solid  
Colour: white  
Odour: earthy

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

Relatively nontoxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### **Irritation / corrosion:**

May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.



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### **Sensitization:**

Skin sensitizing effects were not observed in animal studies.

### **Potential environmental effects**

### **Aquatic toxicity:**

There is a high probability that the product is not acutely harmful to fish. There is a high probability that the product is not acutely harmful to aquatic invertebrates.

---

## 3. Composition / Information on Ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|----------------------|
| 165252-70-0       | 0.25 %               | dinotefuran          |
| 61790-53-2        | 99.75 %              | Diatomaceous Earth   |

---

## 4. 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.

---

## 5. Fire-Fighting Measures

|                            |                   |
|----------------------------|-------------------|
| Flash point:               | not applicable    |
| Lower explosion limit:     | not determined    |
| Upper explosion limit:     | not determined    |
| Self-ignition temperature: | not self-igniting |

### **Suitable extinguishing media:**

foam, dry powder, carbon dioxide, water spray

### **Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide,  
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.

### **Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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### 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:

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').

### Cleanup:

Dike spillage. Sweep/shovel up. Avoid raising dust. Use wet cleaning methods when applicable. 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

### Handling

#### General advice:

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:

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.

### Storage

#### General advice:

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.

#### Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials. Segregate from foods and animal feeds.

#### 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.

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### 8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

#### Components with workplace control parameters

|                    |      |                                                                                                                                                                                                                                                                       |
|--------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Diatomaceous Earth | OSHA | TWA value 20 millions of particles per cubic foot of air ;<br>TWA value 0.8 mg/m <sup>3</sup> ;<br>The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation. |
|--------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **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:**

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. 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:           | powder                  |                |
| Odour:          | earthy                  |                |
| Colour:         | white                   |                |
| pH value:       |                         | not soluble    |
| Melting point:  | 760 °C                  |                |
| Boiling point:  |                         | not applicable |
| Density:        | 0.035 g/cm <sup>3</sup> |                |
| Vapour density: |                         | not determined |

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Solubility in water:

slightly soluble

### 10. Stability and Reactivity

**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. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

**Substances to avoid:**

organic acids

**Hazardous reactions:**

The product is chemically stable.

**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 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.

**Corrosion to metals:**

Corrosive effects to metal are not anticipated.

**Oxidizing properties:**

not fire-propagating

### 11. Toxicological information

**Acute toxicity**

**Oral:**

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

**Inhalation:**

Type of value: LC50

Species: rat

Value: > 2.08 mg/l

**Dermal:**

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

**Irritation / corrosion**

**Skin:**

Species: rabbit

Result: Slightly irritating.

**Eye:**

Species: rabbit

# Safety Data Sheet

## ALPINE DUST INSECTICIDE

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Result: moderately irritating

### Sensitization:

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

### Genetic toxicity

Information on: dinotefuran

No mutagenic effects reported.

### Carcinogenicity

Information on: dinotefuran

In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

### Reproductive toxicity

Information on: dinotefuran

No reproductive toxic effects reported.

### Development:

Information on: dinotefuran

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

---

## 12. Ecological Information

### Fish

Information on: dinotefuran

Acute:

*Oncorhynchus mykiss*/LC50 (96 h): > 100 mg/l

### Aquatic invertebrates

Information on: dinotefuran

Acute:

*Daphnia magna*/EC50 (48 h): > 1,000 mg/l

---

## 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.

Must be disposed of or incinerated in accordance with local regulations.

### 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.

# Safety Data Sheet

## ALPINE DUST INSECTICIDE

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Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

### 14. Transport Information

#### Land transport USDOT

Not classified as a dangerous good under transport regulations

#### Sea transport IMDG

Not classified as a dangerous good under transport regulations

#### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

### 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;

#### State regulations

State RTK  
MA, NJ, PA

CAS Number  
61790-53-2

Chemical name  
Diatomaceous Earth

### 16. Other Information

Refer to product label for EPA registration number.

Recommended use: insecticide

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.

# Safety Data Sheet

## ALPINE DUST INSECTICIDE

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**MSDS Prepared by:**

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2012/03/20

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

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** FirstStrike® Soft Bait  
**Other identifier(s):** EPA Registration Number 7173-258  
**Uses or restrictions:** Rodenticide with difethialone  
**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209  
**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)  
**After hours phone:** Human or Animal emergencies: RMPDC at 866-514-9168  
Spill emergencies: CHEMTREC at 800-424-9300

## Section 2: Hazard Identification

**Hazard class:** Specific Target Organ Toxicity (Single exposure), Category 2;  
Specific Target Organ Toxicity (Repeated exposure), Category 2  
**Warning:** May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



## Section 3: Composition / Information on Ingredients

**Hazardous ingredients:**  
Difethialone (CAS registry no. 104653-34-1) ..... 0.0025%

## Section 4: First Aid Measures

**Emergency overview:** This material may reduce the clotting ability of the blood and cause bleeding. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding. Have the product label with you when obtaining treatment advice.  
**If swallowed:** Call a poison control center or doctor. 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.  
**If inhaled:** Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration and call poison control or doctor.  
**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.  
**If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor.  
**Note to Physician or Veterinarian:** Contains anticoagulant ingredient. For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K<sub>1</sub> intramuscularly or orally. In severe cases, blood transfusions may be needed.

## Section 5: Fire-fighting Measures

**Extinguishing media:** Use media suitable for the surrounding fire  
**Specific fire or explosion hazards:** None known  
**Special cautions for firefighters:** Wear self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

## Section 6: Accidental Release Measures

**Precautions, PPE and Procedures:** Wearing PPE as specified in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.  
**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

**Precautions for safe handling:** Read the entire product label before using this rodenticide. **Conditions for safe storage:** Store in original container in a cool, dry area out of reach of children, pets and domestic animals. Do not contaminate water, food or feed. Keep container tightly closed. Do not remove or destroy the product label.

## Section 8: Exposure Controls / Personal Protection

**Established exposure limits:** Not applicable

**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product when following label instructions.  
**Individual protection measures:** Wear long pants, shoes, socks and waterproof gloves when handling this product. Follow manufacturer's instructions for cleaning/maintaining PPE, or else wash with 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. Wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

## Section 9: Physical and Chemical Properties

**Appearance:** Soft paste, blue color, raw grain odor. Odor threshold not determined.  
**Water solubility:** Negligible **pH:** Not applicable  
**Relative density:** 1.11 g/cc **Viscosity:** Not applicable  
**% Volatile (volume):** Not applicable **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable **Vapor pressure:** Not applicable  
**Boiling point:** Not determined **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >150 °C **Autoignition temp.:** Not determined  
**Flammability:** Not a flammable solid **Decomposition temp.:** Not determined  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

**Reactivity:** Not reactive, not sensitive to shock or static discharge  
**Chemical stability:** Stable **Hazardous reactions:** None  
**Incompatible materials:** None **Conditions to avoid:** None  
**Hazardous decomposition products:** Oxides of carbon

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.  
**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

This product is extremely toxic to birds and mammals. Do not apply this product directly to water, where surface water is present or to intertidal areas below the mean high water mark. Carefully follow label cautions and directions to reduce hazards to children, pets and non-target wildlife.

## Section 13: Disposal Considerations

**Disposal:** Wastes resulting from the use of this product according to the label instructions must be disposed of as specified on the product label.  
**RCRA waste status:** This product is not regulated as a hazardous waste under Federal law. State and local regulation may affect the disposal of this product. Consult your state or local environmental agency for disposal of waste generated other than by use according to label instructions.

## Section 14: Transportation Information

**Transportation data (49 CFR):** This product is not regulated as a hazardous material for all modes of transportation within the U.S.  
**Hazard Class, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

**TSCA:** All components of this product are listed on the TSCA inventory.  
**SARA section 313:** Contains no reportable components.  
**CA Proposition 65:** Contains no substances subject to Prop 65 requirements.  
**FIFRA:** This product is registered as a pesticide with the U.S. Environmental Protection Agency. The label requirements under Federal pesticide law differ from the classification criteria and hazard information required by OSHA on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container.

## Section 16: Other Information

**Prepared by:** K. Paavola **Date:** 13 August 2019  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation.



# MATERIAL SAFETY DATA SHEET

Revision Date: 2/2/00

## SECTION 1 - COMPANY AND PRODUCT INFORMATION SHEET

**MANUFACTURED FOR:**  
Paragon Professional Pest Control Products  
3635 Knight Road, Suite 7  
Memphis, Tennessee 38118

**TELEPHONE:** M-F, 8:00-4:30 CST, 14:00-22:30 GMT:  
(800) 645-6466 or (763) 544-0341

**MSDS & PRODUCT INFORMATION:**  
8:00-4:30 CST, 14:00-22:30 GMT:  
(800) 238-9254 or (763) 544-0341

### 24 HOUR EMERGENCY PHONE (CHEMTREC)

**U.S. AND CANADA:** (800) 424-9300

**(ALL OTHER AREAS):** (703) 527-3887

FOR INFORMATION REGARDING MEDICAL  
EMERGENCIES OR PESTICIDE INCIDENTS,

**CALL THE  
INTERNATIONAL  
POISON CENTER AT:**

1-888-740-8712

**PRODUCT NAME:** CONQUER® Residual  
Insecticide Concentrate  
2662

**PRODUCT DESCRIPTION:** Pyrethroid Insecticide  
Concentrate

**CHEMICAL NAME:** Esfenvalerate

**SYNONYMS:** Evercide 2662

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT(S)                                                                                                                     | CAS #      | EINECS    | EXPOSURE LIMITS                                                                                                           | % BY WEIGHT |
|----------------------------------------------------------------------------------------------------------------------------------|------------|-----------|---------------------------------------------------------------------------------------------------------------------------|-------------|
| Esfenvalerate [(S) - Cyano (3-phenoxyphenyl) methyl 4-chloro-alpha- (1-methylethyl) benzeneacetate]                              | 66230-04-4 | None      | 2 mg/m <sup>3</sup> (TWA, Skin)<br>(supplier recommended)                                                                 | 3.48        |
| Paraffinic, Naphthenic Solvent<br>(Supplier recommended PEL)<br>PEL = Permissible Exposure Limits<br>TLV = Threshold Limit Value | 64742-47-8 | 265-149-8 | 100ppm (525mg/m <sup>3</sup> )<br>TWA<br>TWA = Time Weighted Average (8 hr)<br>STEL = Short Term Exposure Limit (15 Min.) | 50.00-90.00 |

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**CAUTION** May be harmful if swallowed or inhaled. Causes eye irritation. Can cause allergic skin reaction. Avoid contact with skin, eyes or clothing. Combustible Liquid. Do not use near heat or open flame.

#### HEATH EFFECTS:

##### EYES:

Can Cause irritation with discomfort, tearing and blurred vision.

##### SKIN:

Overexposure by skin contact may initially include a transient (several minutes up to approximately 24 hours) persistent burning or prickling sensation which may be accompanied by visible irritation or rash.

##### INGESTION:

May be harmful if swallowed. Overexposure by ingestion may initially include nonspecific discomfort, such as nausea, vomiting, headache, or weakness; temporary nervous system effects such as muscular weakness, tremors and incoordination. Small amounts of this material may get into the lungs during ingestion or vomiting and may cause mild to severe lung injury.

#### INHALATION:

May be harmful if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. Excessive inhalation can cause nasal and respiratory irritation, nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness. Individuals with preexisting diseases of the liver, kidneys, skin or peripheral nervous system may have increased susceptibility to the toxicity of excessive exposures.

#### SAFETY:

ALWAYS Wear safety glasses and appropriate personal protective equipment when handling this material.

#### SEE TOXICOLOGICAL INFORMATION (section 11)

## SECTION 4 - FIRST-AID MEASURES

#### EYES:

Immediately flush with large amounts of water for at least 15 minutes. Call a physician.

#### SKIN:

Immediately flush affected areas with large amounts of water. Remove contaminated clothing and wash affected areas with soap and water. After drying, applying a vitamin E cream or oil containing a minimum of 15% vitamin E. If irritation persists, get medical attention. Do not reuse contaminated clothing prior to laundering. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing.

#### INHALATION:

Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and get medical attention immediately.

#### INGESTION:

If swallowed, call physician or poison control center immediately. Do not induce vomiting due to aspiration pneumonia hazard.

#### NOTE TO PHYSICIANS:

Treatment is supportive and symptomatic. Diazepam has been recommended to reduce the CNS effects of Esfenvalerate. Probable mucosal damage and danger of aspiration pneumonia may contraindicate the use of gastric lavage.

## SECTION 5 - FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES:

FLASH POINT: 145 °F **METHOD:** TCC  
This product is classified as a combustible liquid.

#### FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: not established.

UPPER FLAMMABLE LIMIT: not established.

#### AUTOIGNITION TEMPERATURE:

not established.

#### HAZARDOUS COMBUSTION PRODUCTS:

Hydrogen cyanide may be produced by thermal degradation.

#### EXTINGUISHING MEDIA:

Foam, carbon dioxide, or dry chemical.

#### FIRE FIGHTING INSTRUCTIONS:

Treat as a oil fire. Keep personnel removed and upwind of fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### SMALL SPILL:

Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

#### LARGE SPILL:

Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

#### WASTE DISPOSAL METHOD:

Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

## SECTION 7 - HANDLING AND STORAGE

#### HANDLING:

Do not breath vapor or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. Discard shoes if contaminated. Do not store or consume food, drink or tobacco in areas where they may have become contaminated with this product. Wear chemically impervious gloves such as neoprene or nitrile. Wear OSHA-approved safety glasses, goggles or face shield. Wearing a respirator is not required when handling this material but recommended in absence of proper mechanical ventilation. Read and observe all precautions and instructions on the label.

#### STORAGE:

Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

#### WORK HYGIENIC PRACTICES:

DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA! Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

#### ELECTROSTATIC ACCUMULATION:

This product contains petroleum distillate for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material.

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

Mechanical ventilation should be used when handling this product is enclosed spaces. Local exhaust ventilation may be necessary

**RESPIRATORY PROTECTION:**

A respirator with an organic cartridge is required when product is dispensed in a mist or vapor form.

**SKIN PROTECTION:**

Wear neoprene or nitrile gloves and protective clothing. Do not allow contact with skin.

**EYE PROTECTION:**

Wear an OSHA-Approved safety glasses, goggles or face shield.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Pale yellow-colored liquid.  
**ODOR:** Refined petroleum odor  
**PHYSICAL STATE:** Liquid.  
**VAPOR PRESSURE:** Not established.  
**VAPOR DENSITY:** Not established.  
**BOILING POINT:** Not established.  
**MELTING POINT:** Not applicable.

**SOLUBILITY:** Emulsifiable in water. Soluble with most organic solvents.  
**SPECIFIC GRAVITY @ 20°C:** 0.853  
**COLOR, (GARDENER):** 2  
**PH:** 4.8 @ 3% in H<sub>2</sub>O  
**REFRACTIVE INDEX @ 25°C:** 1.4522

**SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Hydrogen cyanide may be formed by thermal decomposition or by contact with alkaline substance such as soda ash & lye.

**INCOMPATIBILITY:** Strong acidic or alkaline materials.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**SECTION 11 - TOXICOLOGY INFORMATION****ACUTE STUDIES:**

**EYE:** Primary eye irritation (rabbit): Conjunctival irritation clearing in 48 hours.

**CHRONIC (NOEL):** Not available

**ONCOGENICITY (NOEL):** Not available

**SUBCHRONIC (NOEL):** Not available

**SKIN:** Primary skin irritation index (rabbit): Irritation index =  
2.13

**CARCINOGENICITY:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Dermal Sensitization (guinea pig): Not a sensitizer.  
Acute Dermal LD<sub>50</sub> (rabbit): > 2000 mg/kg

**TERATOGENICITY (NOEL):** Not available

**INGESTION:** Acute Oral LD<sub>50</sub> (rat): = 1470 mg/kg

**REPRODUCTION (NOEL):** Not available

**INHALATION:** Acute Inhalation LC<sub>50</sub> (rat) (4 hour): = 0.99 mg/l

**MUTAGENICITY:** Not available

**SECTION 12 - ECOLOGICAL INFORMATION****PERSISTENCE IN THE ENVIRONMENT**

**BIODEGRADATION:** Not available

**CHEMICAL DEGRADATION:** Not available

**TOXIC EFFECTS ON ORGANISMS:** This pesticide is highly toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer system without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**TOXICITY TO USEFUL INSECTS:** Unknown

**SECTION 13 - DISPOSAL CONSIDERATIONS****RCRA/CERCLA HAZARDOUS WASTE:****INGREDIENT**

None

**RCRA ID #: CERCLA RQ-VALUE**

**DISPOSAL METHOD:** Product should be disposed of according to local, state and federal regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

**SECTION 14 - TRANSPORTATION INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:**

Regulated as a hazardous material according to the Department of Transportation in bulk quantities (greater than 119 gallons) only:

**PROPER SHIPPING NAME:** Combustible Liquid, N.O.S. (paraffinic, Naphthenic Solvent)

**HAZARD CLASS:** Combustible Liquid

**IDENTIFICATION NUMBER (UN OR NA):** NA 1993

**PACKING GROUP:** III

**INTERNATIONAL TRANSPORTATION REGULATIONS:**

**IACO/IATA DESCRIPTION:** Not Considered hazardous by IATA Regulations for transportation via air.

**IMO DESCRIPTION (IMDG CODE):** Not considered hazardous by IATA Regulations for transportation via vessel.

**SECTION 15 - REGULATORY INFORMATION****EUROPEAN COMMUNITY:**

**RISK PHRASES:** R23, R38, R37, R22  
**EINECS:** See Section 2.

**U.S. FEDERAL REGULATIONS:****SARA TITLE III****SECTION 302:**

Not listed

**SECTION 313:**

This product contains the following toxic chemicals of the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

**CAS#**  
66230-04-4

**CHEMICAL NAME:**  
Esfenvalerate [(S)-Cyano (3-phenoxyphenyl) methyl 4-chloro-alpha-(1-methylethyl) benzeneacetate]

**% BY WEIGHT:**  
3.48

**SECTION 16 - OTHER INFORMATION****HMIS RATINGS:**

We assign HMIS rating to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in section 7 and 8 of this MSDS.

**HMIS RATINGS:** Health 2  
Flammability 2  
Reactivity 1

The data contained herein is based on information currently available to MGK company, and believed to be factual and the opinions expressed to be those of qualified; however, this data is not to be taken as a warranty or representation for which MGK Company assumes legal responsibility.

Material Safety Data Sheet prepared by T.A. Lennan



## MATERIAL SAFETY DATA SHEET

### Univar USA Inc.

9430 Research Boulevard  
Suite 350, Echelon Bldg. IV  
Austin, Texas 78759

### Emergency Response Telephone Numbers

For Spills Call: 1-(800)-424-9300  
For Medical Emergencies Call: 1-(866)-674-4334  
For Other Emergencies Call: 1-(952)-653-3523

### I. Material Identification

Product Name: **MasterLine Bifenthrin 7.9 Termiticide/Insecticide**  
EPA Reg. No: 73748-7

#### INGREDIENTS:

(% w/w)

Bifenthrin (CAS Reg. No. 82657-04-3)

[1 $\alpha$ ,3 $\alpha$ -(Z)]-( $\pm$ )-(2-methyl[1,1'-biphenyl]-3-yl) methyl 3-2(-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate<sup>1</sup>

7.9%

Inert Ingredients

92.1%

<sup>1</sup> *cis/trans* ratio: minimum 97% ( $\pm$ ) *cis* and maximum 3% *trans*

Chemical Class: Synthetic Pyrethroid Insecticide

EPA Signal Word: Caution

### II. Hazardous Ingredients

#### MATERIAL:

#### OSHA PEL

#### ACGIH TLV

Active Ingredients: Bifenthrin

Not established

Not established

Inert Ingredients:

Not Established

Not Established

### III. Health Hazard Data

**EYE:** Practically non-irritating to the eyes.

**SKIN CONTACT:** Practically non-irritating to the skin. May cause slight skin irritation with prolonged or repeated contact. Skin sensations such as rashes, numbing, burning, or tingling may occur in certain individuals. These skin sensations are reversible and usually subside within 12 hours.

**SKIN ABSORPTION:** The acute dermal toxicity is considered to be low. The dermal LD<sub>50</sub> for rabbits is greater than 5050 mg/kg.

**INGESTION:** The acute oral toxicity is considered to be moderate. The oral LD<sub>50</sub> for female rats is 310 mg/kg. Small amounts that might be swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause serious injury, even death.

**INHALATION:** The acute inhalation toxicity is considered to be low. The inhalation LC<sub>50</sub> for rats is greater than 2.65 mg/l for 4 hours.

**SYMPTOMS:** Symptoms of excessive exposure by oral and inhalation routes include bleeding from the nose, tremors, and convulsions.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Excessive exposure may produce effects on the nervous system such as tremors and convulsions, however, this product does not cause delayed neurotoxicity. Other laboratory reports indicate effects on the mucous membranes based on bloody discharge from the nose.

**CANCER INFORMATION:** Chronic feeding studies with bifenthrin in laboratory animals resulted in a slight increase in the incidence of urinary bladder tumors at the highest dose tested in male mice. These results were considered as equivocal and not a clear compound-related effect. The doses that produced this oncogenic effect in laboratory animals, greatly exceeds human exposure levels for the recommended use of this product. Consequently, the oncogenic potential in humans is extremely weak or non-existent. Bifenthrin is not classified as a carcinogen by IARC, NTP, OSHA, and ACGIH. The EPA has classified bifenthrin as a Group C possible human carcinogen based on the limited evidence of carcinogenicity in animals and in the absence of human data.

**TERATOLOGY (BIRTH DEFECTS):** The active ingredient in this product did not cause birth defects in laboratory animal studies.

**REPRODUCTIVE EFFECTS:** Bifenthrin did not interfere with fertility in animal reproduction studies.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Based on a number of *in vivo* and *in vitro* studies, it was concluded that the active ingredient in this product are not mutagenic.

#### IV. First Aid Procedures

**EYES:** Hold eye open and rinse slowly and gently with water for 15 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 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.

**INGESTION:** 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.

**INHALATION:** Remove 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 advice.

**NOTE TO PHYSICIAN:** This product has low dermal and inhalation toxicity, and moderate oral toxicity. If swallowed, induce vomiting by giving two glasses of water and touching the back of the throat with a finger or by giving syrup of ipecac. It is practically non-irritating to the eyes and skin. Reversible skin sensations (paresthesia) may occur and skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

## **V. Physical Hazard Information**

### **CHEMICAL & PHYSICAL PROPERTIES:**

|                 |                                          |
|-----------------|------------------------------------------|
| Color:          | White Opaque                             |
| Physical State: | Liquid                                   |
| Odor:           | Mild Chemical                            |
| Density:        | 8.48 lbs/gal (1.016 gm/cm <sup>3</sup> ) |
| Solubility:     | Disperses in water                       |
| Viscosity:      | 60 cps @ 25°C                            |
| pH:             | 6.45                                     |
| Stability:      | Stable                                   |

### **FIRE AND EXPLOSION HAZARDS:**

|                               |                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash Point:                  | Non-flammable (water-based)                                                                                                                                                                                          |
| Method Used:                  | N/A                                                                                                                                                                                                                  |
| Extinguishing Media:          | Foam, CO <sub>2</sub> , or dry chemical is preferred. Water spray or water fog only if necessary. Contain all runoff.                                                                                                |
| Fire & Explosion Precautions: | Foam fire-extinguishing system is preferred because uncontrolled water can spread possible contamination. Do not allow fire-fighting water to escape into waterways or sewers. Toxic irritating gases can be formed. |
| Fire-Fighting Equipment:      | Use positive-pressure self-contained breathing apparatus and full protective equipment.                                                                                                                              |

**REACTIVITY:**

|                           |                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Conditions to Avoid:      | Excessive heat and fire.                                                                                                           |
| Stability:                | Stable.                                                                                                                            |
| Hazardous Decomposition:  | Under fire conditions carbon dioxide, carbon monoxide, chlorine, fluorine, hydrogen chloride, and hydrogen fluoride can be formed. |
| Hazardous Polymerization: | Will not occur.                                                                                                                    |

**VI. Environmental Protection**

**IN CASE OF SPILLS OR LEAKS:** Wear protective clothing as described in Section VII (Personal Protection and Precautions) of this MSDS. Absorb liquid with material such as clay, sand, sawdust, or dirt. Sweep up and place in a suitable container for disposal and label the contents. Area can be washed down with a suitable solution of bleach or soda ash and an appropriate alcohol (methanol, ethanol, or isopropanol). Follow this by washing with a strong soap and water solution. Absorb any excess liquid as indicated above, and add to the disposal container. Keep product, contaminated materials and wash water out of streams and sewers. Wash exposed body areas thoroughly after handling.

**DISPOSAL METHOD:** Do not contaminate food, feed, or water by storage or cleaning of equipment. Wastes resulting from the use of this product may be disposed of on site, if approved waste handling facilities are available, or at an approved waste handling facility.

**PHYSICAL ENVIRONMENTAL PROPERTIES:** Bifenthrin is moderately stable in soil under aerobic conditions and at a wide range of pH with a half-life ranging from 65 to 125 days depending on the soil type. Bifenthrin has a high Log Pow that is greater than 6, it has an affinity to bind with organic matter, and it is not mobile in soils; consequently, it is not likely to contaminate ground water. There is a potential for bifenthrin to bioaccumulate, with it having a bioaccumulation factor of 11,750.

**ENVIRONMENTAL TOXICOLOGY:** Bifenthrin is highly toxic to fish and aquatic arthropods, with LC<sub>50</sub> values ranging from 0.0038 to 17.8 µg/L. In general, aquatic arthropods are the most sensitive species. Bifenthrin has no effect on mollusks at its limit of water solubility. Exercise extreme care to avoid contamination of aquatic environments. Bifenthrin is only slightly toxic to both water fowl and upland game birds with LD<sub>50</sub> values ranging from 1,800 mg/kg to > 2,150 mg/kg.

**VII. Personal Protection and Precautions****EXPOSURE GUIDELINE(S):**

|            |                   |
|------------|-------------------|
| Bifenthrin | None established. |
|------------|-------------------|



**VENTILATION:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline. Ventilate all transport vehicles prior to unloading.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if the exposure guideline is exceeded, use an air-purifying respirator approved for pesticides (U.S. NIOSH/MSHA, EU CEN, or comparable certification organization).

**EYE/FACE PROTECTION:** For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

**SKIN PROTECTION:** Wear coveralls or long-sleeved shirt and long pants, chemical protective gloves (nitrile, neoprene, or Viton® brand), head covering and shoes plus socks. For increased exposures, wear a full body cover barrier suit, such as a PVC rain suit. Contaminated leather articles, such as shoes, belts, and watchbands, should be removed and destroyed. Launder all work clothing before reuse. Keep work clothing separated from household laundry.

**SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE:** See product label. Harmful if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid breathing dust vapor, or spray mist. Store in a cool, dry place and away from heat. Keep out of reach of children and animals. Keep away from food, feedstuffs, and water supplies.

## **VIII. DOT Hazardous Materials Information**

**U.S. SURFACE FREIGHT CLASS:**

This product is not subject to DOT regulations as a hazardous material when shipped in non-bulk packages.

**OTHER SHIPPING INFORMATION:** This product is not regulated for transport in the USA when shipped via highway or railroad in non-bulk packages. Describe using the "U.S. Surface Freight Class" above, which applies in all cases.

**SPECIAL NOTE:** The following applies to shipments over water, and shipments in bulk packages:

**PROPER SHIPPING NAME:** Environmentally hazardous substance, liquid, n.o.s. (bifenthrin 7.9%)

**HAZARD CLASS OR DIVISION:** 9

**IDENTIFICATION NUMBER:** UN 3082

**PACKING GROUP:** III

**MARINE POLLUTANT:** Bifenthrin is a severe marine pollutant

## IX. Regulatory Information

**SARA 313 INFORMATION:** This product contains the following substances 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:

| CHEMICAL NAME | CAS NUMBER | CONCENTRATION |
|---------------|------------|---------------|
| Bifenthrin    | 82657-04-3 | 7.9%          |

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard  
A delayed health hazard

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

| Category     | Rating |
|--------------|--------|
| Health       | 1      |
| Flammability | 0      |
| Reactivity   | 0      |

**COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):** This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

Category:

| Chemical Name | CAS Number | RQ         | % in Product |
|---------------|------------|------------|--------------|
| Bifenthrin    | 82657-04-3 | not listed | 7.9%         |



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This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws and regulations. See MSDS for health and safety information.