Pest Control Schedule

First Wed/Thurs.- Burnet/Alamo/Scott/Ball

Second Wed/Thurs.- Parker/Oppe/Weis

Third Wed/Thurs.- Morgan/Central

Fourth Wed/Thurs.- San Jac/Austin/Rosenberg
1. PRODUCT IDENTIFICATION

Product Name: ADVION COCKROACH GEL BAIT

EPA Signal Word: Caution

Active Ingredient(%): Indoxacarb (0.6%)

Chemical Name: methyl (4aS)-7-chloro-2,5-dihydro-2-[[methoxycarbonyl][4-(trifluoromethoxy)phenyl]amino]carbonyl]indenol[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate

Chemical Class: Insecticide

EPA Registration Number(s): 100-1484

Section(s) Revised: 4

2. HAZARDS IDENTIFICATION

Health and Environmental
May cause an allergic skin reaction.

Hazardous Decomposition Products
Not Available

Physical Properties
Appearance: Yellow gel
Odor: None

Unusual Fire, Explosion and Reactivity Hazards
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inert Ingredients (99.4%)</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Indoxacarb (0.6%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>1 mg/m³ 8hr &amp; 12hr TWA (respirable)</td>
<td>No</td>
</tr>
</tbody>
</table>

* recommended by manufacturer

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
Syngenta Hazard Category: C, S

4. FIRST AID MEASURES

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

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

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

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

Notes to Physician
There is no specific antidote if this product is ingested.
Treat symptomatically.
Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Medical Condition Likely to be Aggravated by Exposure
Not Available

5. FIRE FIGHTING MEASURES

Fire and Explosion
Flash Point (Test Method): Not Available
Flammable Limits (% in Air): Lower: Not Applicable  Upper: Not Applicable
Autoignition Temperature: Not Available
Flammability: Not Available

Unusual Fire, Explosion and Reactivity Hazards
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire
Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g., commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

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

Eye Contact: Where eye contact is likely use splash-proof chemical goggles.

Product Name: ADVION COCKROACH GEL BAIT
Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation: A respirator is not normally required when handling this substance.

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow gel</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>1.0755 g/ml @ 68°F (20°C)</td>
</tr>
<tr>
<td>pH</td>
<td>6.08</td>
</tr>
<tr>
<td>Solubility in H2O</td>
<td></td>
</tr>
<tr>
<td>Indoxacarb</td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td></td>
</tr>
<tr>
<td>Indoxacarb</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

- **Stability:** Stable under normal use and storage conditions.
- **Hazardous Polymerization:** Will not occur.
- **Conditions to Avoid:** Not Available
- **Materials to Avoid:** Not Available
- **Hazardous Decomposition Products:** Not Available

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity/Irritation Studies (Finished Product)**

- **Ingestion:** Oral (LD50 Rat) : > 5000 mg/kg body weight
- **Dermal:** Dermal (LD50 Rat) : > 5000 mg/kg body weight
- **Inhalation:** Inhalation (LC50 Female Rat) : > 5.5 mg/l air - 4 hours
- **Eye Contact:** Non-Irritating (Rabbit)
- **Skin Contact:** Non-Irritating (Rabbit)
- **Skin Sensitization:** A skin sensitizer (Guinea Pig)

**Reproductive/Developmental Effects**

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

**Chronic/Subchronic Toxicity Studies**

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

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

**Carcinogenicity**

Indoxacarb: Animal testing did not show any carcinogenic effects.

---

**Product Name:** ADVION COCKROACH GEL BAIT
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Did not cause genetic damage in animals.

**Other Toxicity Information**

None

**Toxicity of Other Components**

Inert Ingredients (99.4%)

Not Applicable

**Target Organs**

**Active Ingredients**

Indoxacarb: Nervous system

**Inert Ingredients**

Inert Ingredients: Not Applicable

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity Effects**

Indoxacarb:

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

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

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

**Environmental Fate**

Indoxacarb:

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

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

---

**13. DISPOSAL CONSIDERATIONS**

**Disposal**

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

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

---

**14. TRANSPORT INFORMATION**

**DOT Classification**

Ground Transport - NAFTA

Not regulated.

**Comments**

Water Transport - International

Not regulated.

Air Transport

Not regulated.

---

Product Name: ADVION COCKROACH GEL BAIT
15. REGULATORY INFORMATION

EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: Not Applicable

California Proposition 65
Not Applicable

CERCLA/SARA 304 Reportable Quantity (RQ)
Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261)
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>Health:</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Flammability:</td>
</tr>
<tr>
<td>Instability:</td>
<td>Reactivity:</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 2/25/2013
Revision Date: 11/1/2013
Replaces: 4/4/2013

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

End of MSDS
# Catchmaster™ Brand Adhesive Devices – MSDS

**MANUFACTURER’S ADDRESS:**
AP&G Co., Inc.
170 53rd Street
Brooklyn, NY 11232

**PREPARED BY:**
AP&G Co., Inc.

**TELEPHONE NO.:**
(718) 492-3648

**PRODUCT NAME:**
CATCHMASTER™ Brand Products

**USE:**
Rodent & Insect monitoring devices

**CHEMICAL NAME AND SYNONYM:**

**EPA ESTABLISHMENT NO.:**
48377-N.Y.-1

**EPA REGISTRATION NO.:**
Not Required

## ITEMS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>72MB-Chocolate</td>
<td>Super Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72MB-Cherry</td>
<td>Super Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72MB-Peanut Butter</td>
<td>Super Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72MB</td>
<td>Regular Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72PM</td>
<td>Mouse Size Glue Boards – Molasses</td>
</tr>
<tr>
<td>72MB4.5</td>
<td>Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72MBGL</td>
<td>Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72TC</td>
<td>Mouse &amp; Insect Glue Boards</td>
</tr>
<tr>
<td>72TB</td>
<td>Tasty Banana Mouse Size Glue Boards</td>
</tr>
<tr>
<td>72TBPB</td>
<td>Tasty Banana Mouse Size Glue Boards – Peanut Butter</td>
</tr>
<tr>
<td>150MBGL</td>
<td>Mouse &amp; Insect Size Glue Boards</td>
</tr>
<tr>
<td>60RGL</td>
<td>Econo Rat Glue Boards</td>
</tr>
<tr>
<td>24GRB</td>
<td>Rat Size Glue Boards</td>
</tr>
<tr>
<td>48R</td>
<td>Rat Size Glue Trays (With Hercules Putty™)</td>
</tr>
<tr>
<td>48RNHP</td>
<td>Rat Size Glue Trays (W/O Hercules Putty™)</td>
</tr>
<tr>
<td>48RB</td>
<td>Rat Size Trays (Bulk)</td>
</tr>
<tr>
<td>48ROOF</td>
<td>Rat Size Glue Traps</td>
</tr>
<tr>
<td>48WRC</td>
<td>Gold Temperature Glue Trays</td>
</tr>
<tr>
<td>96M</td>
<td>Mouse Size Glue Trays</td>
</tr>
<tr>
<td>100FF</td>
<td>Fruit Fly Traps</td>
</tr>
<tr>
<td>100I</td>
<td>Insect Traps &amp; Monitors</td>
</tr>
<tr>
<td>150R</td>
<td>Roach &amp; Insect Traps &amp; Monitors</td>
</tr>
<tr>
<td>2881</td>
<td>Insect Traps &amp; Monitors</td>
</tr>
<tr>
<td>812B</td>
<td>Food &amp; Pantry Moth Glue Traps</td>
</tr>
<tr>
<td>BG-1-84</td>
<td>Bulk Glue EASYSPREAD – 1 Gallon</td>
</tr>
<tr>
<td>BG-5-84</td>
<td>Bulk Glue EASYSPREAD – 5 Gallons</td>
</tr>
<tr>
<td>9FS15</td>
<td>Fly Glue Strings</td>
</tr>
<tr>
<td>900PRO</td>
<td>Fly Glue Trap Inserts for Luralite Professional Sconce</td>
</tr>
<tr>
<td>907</td>
<td>Fly Glue Trap Inserts for Vector™ Products</td>
</tr>
<tr>
<td>912</td>
<td>Mini Gold Sticks</td>
</tr>
<tr>
<td>924</td>
<td>Fly Glue Traps for 901 Fly Light Unit</td>
</tr>
<tr>
<td>925</td>
<td>Fly Glue Traps for 911 Fly Light Unit</td>
</tr>
<tr>
<td>927</td>
<td>Fly Glue Traps for Pest West Mantis</td>
</tr>
<tr>
<td>928</td>
<td>Fly Glue Traps for 910 Fly Light Unit</td>
</tr>
<tr>
<td>930</td>
<td>SpiderWeb™ Fly Glue Traps</td>
</tr>
<tr>
<td>948</td>
<td>Fly Glue Traps w/ Multi-Bait Attractant</td>
</tr>
<tr>
<td>960PLL</td>
<td>Fly Glue Trap Inserts for P&amp;L Open Air 80</td>
</tr>
<tr>
<td>961PLL</td>
<td>Fly Glue Trap Inserts for P&amp;L Open Air 30</td>
</tr>
<tr>
<td>962</td>
<td>Large Gold Sticks</td>
</tr>
<tr>
<td>9144B4</td>
<td>Scented Bug &amp; Fly Catchers (Bulk)</td>
</tr>
</tbody>
</table>

## SECTION I – HAZARDOUS INGREDIENTS

**ACTIVE INGREDIENTS:**

**% BY WEIGHT:**

**CURRENT TLV:**

None

N/A

N/A

## SECTION II – PHYSICAL DATA

**APPEARANCE:**

**COLOR:**

**ODOR:**
<table>
<thead>
<tr>
<th>Solid</th>
<th>Clear/Yellow</th>
<th>Scent Free or non allergenic synthetic scents</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAPOR DENSITY</td>
<td>WATER REACTIVITY</td>
<td>EVAPORATION RATE:</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>BOILING POINT</td>
<td>SOLUBILITY:</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>Soluble in mineral spirits</td>
</tr>
</tbody>
</table>

**SECTION III – FIRE AND EXPLOSION DATA**

<table>
<thead>
<tr>
<th>FLASH POINT (method used):</th>
<th>FLAMMABLE LIMIT:</th>
<th>AUTOIGNITION TEMP:</th>
</tr>
</thead>
<tbody>
<tr>
<td>375°F</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>EXTINGUISHING MEDIA:</td>
<td>SPECIAL FIREFIGHTING PROCEDURES:</td>
<td>UNUSUAL FIRE OR EXPLOSION HAZARDS:</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**SECTION IV – REACTIVITY HAZARD DATA**

<table>
<thead>
<tr>
<th>STABILITY:</th>
<th>CONDITIONS TO AVOID:</th>
<th>POLYMERIZATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>None</td>
<td>Will not occur</td>
</tr>
</tbody>
</table>

**SECTION V – TOXICITY DATA**

<table>
<thead>
<tr>
<th>LD50, ORAL (Ingestion):</th>
<th>LD50, DERMAL (skin contact):</th>
<th>LD50, INHALATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**SECTION VI -**

<table>
<thead>
<tr>
<th>PRIMARY ROUTE OF ENTRY:</th>
<th>SIGNS AND SYMPTOMS OF EXPOSURE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>None</td>
</tr>
</tbody>
</table>

**EMERGENCY FIRST AID PROCEDURES:**

- **Eyes:** Flush with cool water for at least fifteen minutes, contact a physician.
- **Skin:** Remove glue with mineral spirits or vegetable oil. Wash skin with soap and water.
- **Inhalation:** N/A
- **Ingestion:** Call a physician or emergency phone number immediately. Do not give anything by mouth or induce vomiting unless instructed by physician.
- **Note to physician:** None

**SECTION VII – CONTROL & PROTECTIVE MEASURES**

**RESPIRATION TYPE:** Not required

**VENTILATION:** Not required

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

- **HEALTH:** 0 (minimal)
- **REACTIVITY:** 0 (minimal)
- **HAZARDOUS MATERIAL INFORMATION (HMIS) RATINGS:**
  - FLAMMABILITY: 0 (minimal)
- **PROTECTIVE EQUIPMENT:** None

**SECTION VIII – SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN THE EVENT MATERIAL IS RELEASED OR SPILLED:**

- General clean up. Remove glue by applying mineral spirits to spilled area, follow by washing area with warm water and detergent.

**WASTE DISPOSAL METHOD:**

Wastes resulting from use may be disposed of on-site or at an approved waste disposal facility. Dispose of wastes in accordance with all applicable federal, state and local regulations.
**SECTION IX – SPECIAL PRECAUTIONS & STORAGE**

<table>
<thead>
<tr>
<th>STORAGE TEMPERATURE:</th>
<th>AVERAGE SHELF LIFE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room temperature</td>
<td>Stable</td>
</tr>
</tbody>
</table>

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**
Store in original container in a cool, dust free environment.

**SECTION X – SHIPPING DATA**

<table>
<thead>
<tr>
<th>DOT SHIPPING NAME:</th>
<th>DOT HAZARD CLASSIFICATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Required</td>
<td>Non-hazardous</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOT LABELS REQUIRED:</th>
<th>FREIGHT CLASSIFICATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Required</td>
<td>LTL Class 60</td>
</tr>
</tbody>
</table>

Each single package of every CATCHMASTER™ product is marked EPA – Establishment No. 48377-N.Y.-1. This is mandated by the United States of America Environmental Protections Agency Regulations. Furthermore, detailed Annual Production and Sales Reports must be filed each and every year with the E.P.A., by the AP&G Co., Inc.

MSDS-2009-1. CATCHMASTER – PCO Rodent, Insect & Fly
*Prepared: 01-June-2009*
Safety Data Sheet
CY-KICK CS
Revision date: 2009/12/22
Version: 1.0

1. Product and Company Identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

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: 000000395631
Synonyms: Cyfluthrin

2. Hazards Identification

Emergency overview

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

See Product Label for additional precautionary statements.

State of matter: liquid
Colour: beige to yellow
Odour: characteristic

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.

Irritation / corrosion:
May cause slight but temporary irritation to the eyes. May cause moderate irritation to the skin.

Sensitization:
Skin sensitizing effects were not observed in animal studies.
Safety Data Sheet
CY-KICK CS

Revision date: 2009/12/22
Page: 2/8
Version: 1.0

Potential environmental effects
Aquatic toxicity:
Acute toxicity for aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>68359-37-5</td>
<td>6.0 %</td>
<td>Cyfluthrin</td>
</tr>
<tr>
<td></td>
<td>94.0 %</td>
<td>Proprietary ingredients</td>
</tr>
</tbody>
</table>

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 for 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:
A flash point determination is unnecessary due to the high water content.

Suitable extinguishing media:
Foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:
Carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, hydrocarbons
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.

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. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

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:

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Colour</td>
<td>beige to yellow</td>
</tr>
<tr>
<td>pH value</td>
<td>7.5 - 8.5</td>
</tr>
<tr>
<td>Freezing point</td>
<td>approx. 0 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>approx. 100 °C</td>
</tr>
<tr>
<td>Density</td>
<td>0.96 g/cm³</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Information applies to the solvent.</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Conditions to avoid:

Substances to avoid:
No substances known that should be avoided.

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 oxides, Hydrogen chloride, hydrogen fluoride
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:

Information on: cyfluthrin
Type of value: LD50
Species: rat
Value: 77 mg/kg

Inhalation:

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

Dermal:

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

Irritation / corrosion

Information on: cyfluthrin
Assessment of irritating effects:
Not irritating to eyes and skin.

Sensitization

Information on: cyfluthrin
Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies.

Genetic toxicity

Information on: cyfluthrin
No mutagenic effects reported.

Carcinogenicity

Information on: cyfluthrin
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: cyfluthrin*
No reproductive toxic effects reported.

Development:

*Information on: cyfluthrin*
No teratogenic effects reported.

12. Ecological Information

**Fish**

*Information on: cyfluthrin*
*Acute:*
*Oncorhynchus mykiss/LC50 (96 h):* 0.0000068 mg/l

**Aquatic invertebrates**

*Information on: cyfluthrin*
*Acute:*
*Daphnia magna/EC50 (48 h):* 0.00029 mg/l

**Aquatic plants**

*Information on: cyfluthrin*
*Toxicity to aquatic plants: green algae/EC50 (96 h):* > 10 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.

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

EPCRA 311/312 (Hazard categories):
Acute;

EPCRA 313:
CAS Number Chemical name
68359-37-5 beta-Cyfluthrin

16. Other Information

Refer to product label for EPA registration number.

Recommended use: insecticide

BASF supports 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.

Local Contact Information
Product Stewardship
919 547-2000

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 BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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END OF DATA SHEET
Material Safety Data Sheet  
MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL  

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION  
Product Name: MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL  
MSDS Number: 102000015432  
EPA Registration No.: 432-1460  
Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA  
For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS  

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fipronil</td>
<td>120068-37-3</td>
<td>0.05</td>
</tr>
</tbody>
</table>

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview: Caution! Keep exposed gel away from open food and food contact surfaces. Harmful if absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State: gel

Appearance: brown

Routes of Exposure: Eye contact, Skin Absorption, Skin contact, Ingestion

Immediate Effects:

Eye: Avoid contact with eyes. Moderately irritating to the eyes following prolonged direct contact.

Skin: Avoid contact with skin, eyes and clothing. Harmful if absorbed through skin. Moderately irritating to skin following prolonged direct contact.
**Material Safety Data Sheet**

**MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL**

**Ingestion**
Do not take internally.

**Medical Conditions Aggravated by Exposure**
No specific medical conditions are known which may be aggravated by exposure to this product.

### SECTION 4. FIRST AID MEASURES

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.</td>
</tr>
<tr>
<td><strong>Eye</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

**Notes to Physician Treatment**
There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

### SECTION 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong></td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>Fire and Explosion Hazards</strong></td>
<td>In the event of fire the following can be released: Sulphur oxides nitrogen oxides (NOx) Hydrogen fluoride</td>
</tr>
<tr>
<td><strong>Suitable Extinguishing Media</strong></td>
<td>Dry chemical, Foam, Water, Carbon dioxide (CO2)</td>
</tr>
</tbody>
</table>
**Material Safety Data Sheet**

**MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL**

**Fire Fighting Instructions**
Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<table>
<thead>
<tr>
<th>Personal Precautions</th>
<th>Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods for Cleaning Up</td>
<td>Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.</td>
</tr>
<tr>
<td>Additional Advice</td>
<td>Use personal protective equipment. If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal.</td>
</tr>
</tbody>
</table>

**SECTION 7. HANDLING AND STORAGE**

<table>
<thead>
<tr>
<th>Handling Procedures</th>
<th>Product will stain porous surfaces.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storing Procedures</td>
<td>Keep tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals. Protect against heat/overheating. Keep away from direct sunlight.</td>
</tr>
<tr>
<td>Work/Hygienic Procedures</td>
<td>Keep away from food, drink and animal feedingstuffs.</td>
</tr>
<tr>
<td></td>
<td>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>General Protection</th>
<th>Follow all label instructions. Train employees in safe use of the product.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Engineering Controls</td>
<td>Ensure adequate ventilation.</td>
</tr>
<tr>
<td>Eye/Face Protection</td>
<td>protective eyewear</td>
</tr>
<tr>
<td>Hand Protection</td>
<td>Chemical resistant nitrile rubber gloves</td>
</tr>
</tbody>
</table>

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Material Safety Data Sheet
MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL

Body Protection  
Skin contact should be prevented. Use suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>brown</td>
</tr>
<tr>
<td>Physical State</td>
<td>gel</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>9.51 lbs/gal</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Extremes of temperature and direct sunlight. Exposure to moisture.</td>
</tr>
<tr>
<td>Incompatibility</td>
<td>Strong oxidizing agents&lt;br&gt;Strong bases&lt;br&gt;Strong acids</td>
</tr>
</tbody>
</table>

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, fipronil. The non-acute information pertains to technical-grade active ingredient.

<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Toxicity</td>
<td>rat: LD50: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Acute Dermal Toxicity</td>
<td>rat: LD50: &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity</td>
<td>rat: LC50: &gt; 2.9 mg/l&lt;br&gt;Exposure time: 4 h&lt;br&gt;rat: LC50: &gt; 11.6 mg/l&lt;br&gt;Exposure time: 1 h&lt;br&gt;Extrapolated from the 4 hr LC50.</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>rabbit: Slight irritation.</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>rabbit: No eye irritation.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>guinea pig: Non-sensitizing.</td>
</tr>
<tr>
<td>Chronic Toxicity</td>
<td>Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL

(e.g., tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.

Assessment Carcinogenicity
Fipronil has been classified by EPA as a Category C carcinogen based on thyroid tumors in rats only. These tumors are produced by a mechanism which is not relevant to human cancer. Fipronil did not produce an increase in tumor incidence in mice.

ACGIH
None.
NTP
None.
IARC
None.
OSHA
None.

Reproductive & Developmental Toxicity
REPRODUCTION: Fipronil was not considered a primary reproductive toxicant in rats.

DEVELOPMENTAL TOXICITY: Fipronil was not a developmental toxicant in rats and rabbits.

Neurotoxicity
Fipronil caused transient neurobehavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.

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

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions
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 surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.
Material Safety Data Sheet
MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

Container Disposal
Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for shipment by any mode

FREIGHT CLASSIFICATION:
Insecticides or Fungicides, N.O.I.; other than poison

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1460

US Federal Regulations
TSCA list
None.

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
None.

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
None.

Canadian Regulations
Canadian Domestic Substance List
None.
Material Safety Data Sheet
MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL

Environmental
CERCLA
None.
Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
None.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
- Health - 1
- Flammability - 1
- Reactivity - 0
- Others - none

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

Reason to Revise: New Material Safety Data Sheet.
Revision Date: 01/26/2007

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.
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL
MSDS Number: 102000005030
EPA Registration No: 432-1264

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name: Fipronil
CAS-No.: 120068-37-3
Average % by Weight: 0.001

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview: Caution! May be harmful if swallowed. Avoid contact with skin, eyes and clothing. Keep exposed gel away from open food and food contact surfaces. Hazard to humans and domestic animals. Keep out of reach of children and animals.

Physical State: gel
Odor: sweet
Appearance: amber
Routes of Exposure: Ingestion, Skin contact, Eye contact

Immediate Effects
Eye: May cause mild irritation to eyes. Avoid contact with eyes.
Skin: Mild skin irritation. Avoid contact with skin and clothing.
Ingestion: May be harmful if swallowed. Do not take internally.

Chronic or Delayed Long-Term: This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

Medical Conditions Aggravated by Exposure
No specific medical conditions are known which may be aggravated by exposure to this product.

SECTION 4. FIRST AID MEASURES

General
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye
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.

Skin
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.

Ingestion
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation
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.

Notes to Physician Treatment
There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point
93.4 °C / 200.1 °F

Suitable Extinguishing Media
Water, Foam, Carbon dioxide (CO2), Dry chemical

Fire Fighting Instructions
Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES
Material Safety Data Sheet

MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

Personal Precautions
Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

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. Do not allow to enter soil, waterways or waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling Procedures
Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Product will stain porous surfaces.

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

Storing Procedures
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals.

Work/Hygienic Procedures
Keep away from food, drink and animal feedingstuffs.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Min/Max Storage Temperatures
Recommended maximum transport/storage temperature: 27 °C / 81 °F
The 30-day storage temperature average must not exceed the recommended maximum.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection
There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid contact with skin and eyes.

Follow all label instructions. Train employees in safe use of the product.

Exposure Limits

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Form of exposure</th>
<th>TWA Limit</th>
<th>REL Limit</th>
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<td>10 mg/m³</td>
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<td>OES BCS*</td>
<td>0.005 mg/m³</td>
<td>5 mg/m³</td>
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<td></td>
<td>ACGIH TWA</td>
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<td></td>
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<td>NIOSH REL</td>
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Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

<table>
<thead>
<tr>
<th>NIOSH</th>
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<th>Total dust.</th>
<th>Respirable fraction.</th>
<th>Total dust.</th>
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</thead>
<tbody>
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<tr>
<td>OSHA Z1A</td>
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<tr>
<td>OSHA Z1A</td>
<td>TWA</td>
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<td>Form of exposure</td>
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<td>Respirable fraction.</td>
<td>Total dust.</td>
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*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
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<td>Physical State</td>
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<td>Odor</td>
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<td>Density</td>
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<td>Melting / Freezing Point</td>
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SECTION 10. STABILITY AND REACTIVITY

<table>
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<th>Condition to Avoid</th>
<th>Extremes of temperature and direct sunlight. Exposure to moisture.</th>
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<tr>
<td>Incompatibility</td>
<td>Strong bases, Strong acids, Strong oxidizing agents.</td>
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<tr>
<td>Hazardous Decomposition</td>
<td>Thermal decomposition, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen fluoride (HF), Carbon oxides, Hydrogen chloride (HCl)</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

Hazardous Reactions
Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION
Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, fipronil. The non-acute information pertains to technical-grade active ingredient.

Acute Oral Toxicity  
rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity  
rat: LD50: > 5,000 mg/kg

Skin Irritation  
rabbit: Slight irritation.

Eye Irritation  
rabbit: Minimally irritating.

Sensitization  
guinea pig: Non-sensitizing.

Chronic Toxicity  
Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.

Assessment Carcinogenicity  
Fipronil has been classified by EPA as a Category C carcinogen based on thyroid tumors in rats only. These tumors are produced by a mechanism which is not relevant to human cancer. Fipronil did not produce an increase in tumor incidence in mice.

ACGIH  
None.

NTP  
None.

IARC  
None.

OSHA  
None.

Reproductive & Developmental Toxicity  
REPRODUCTION: Fipronil was not considered a primary reproductive toxicant in rats.

DEVELOPMENTAL TOXICITY: Fipronil was not a developmental toxicant in rats and rabbits.

Neurotoxicity  
Fipronil caused transient neurobehavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.

Mutagenicity  
Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions
Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

Container Disposal
Do not re-use empty containers. Place empty container in trash.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for Domestic Surface Transportation

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
None.

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
None.

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
Material Safety Data Sheet

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ANT KILLER BAIT GEL

None.

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.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
- Health - 1
- Flammability - 1
- Reactivity - 0
- Others - none

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

Reason to Revise: Updated for general editorial purposes. Updated due to new system and numbering scheme.

Revision Date: 12/12/2007

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.
SECTION 1 PRODUCT & COMPANY IDENTIFICATION
Generation™ BlueMax Meal Bait
EPA Reg. No. 7173-238
Generation™ BlueMax Meal Bait Place Packs
EPA Reg. No. 7173-247

Other Designation: Anticoagulant rodenticides with Difethialone
Manufacturer: Liphitech, Inc.
3600 W. Elm Street, Milwaukee, WI 53209
Emergency Phone: 414-351-1478 Monday-Friday, 8:00 am-4:30 pm CST
After Hours: Call CHEMTREC at 1-800-424-9300

SECTION 2 INGREDIENT INFORMATION

Hazardous Ingredient: Difethialone
CAS Number: 104853-54-1
OSHA TLV: Not assigned
ACGIH STEL: Not assigned

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: May be harmful, if swallowed or absorbed through the skin, because this material may reduce the clotting ability of the blood and cause bleeding.

Primary Entry Routes: Oral (swallowing), dermal (absorption through skin)

Acute Effects (Signs and Symptoms of Overexposure):
- Eyes: May cause temporary eye irritation.
- Skin: May be harmful if absorbed through skin. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability and bleeding.
- Inhalation: Due to this product's solid form, inhalation is unlikely.

Ingestion: May be harmful if swallowed. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.

Chronic Effects: Prolonged and/or repeated exposure to small amounts of product can produce cumulative toxicity. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.

Medical Conditions Aggravated by Exposure: Bleeding disorders

Target Organs: Blood

Carcinogenicity: Contains no known or suspected carcinogens.

HMIS: Health – 2, Flammability – 0, Reactivity – 0

SECTION 4 FIRST AID MEASURES

Eyes: Flush with water. Get medical attention if irritation persists.

Skin: Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove person to fresh air and get medical attention.

Ingestion: Call a physician or poison control center immediately. Have the product label available for medical personnel to read.

Induce vomiting under the direction of medical personnel. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. If syrup of ipecac is available, give 1 tablespoon (15 ml) followed by 1 or 2 glasses of water. If vomiting does not occur within 20 minutes, repeat this dosage once. Do not induce vomiting or give anything by mouth to an unconscious person.

Note to Physician: This rodenticide contains an anticoagulant ingredient. If ingested, administer vitamin K, intramuscularly or orally, as indicated in the product's label instructions. Repeat as necessary based on monitoring of prothrombin times.

For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents) call the National Pesticide Information Center at 1-800-858-7378.

SECTION 5 FIRE FIGHTING MEASURES

Flame Point: None
Autoignition Temp.: Not determined
Explosive Limits: LEL: Not applicable,UEL: Not applicable
Extinguishing Media: Use media suitable for the surrounding fire
Unusual Fire or Explosion Hazards: None known
Fire Fighting: Firefighters should wear self-contained breathing apparatus (full facepiece) and full protective clothing. Contain runoff to prevent pollution.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Large Spill/Leak Procedures: Isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters. Scoop up spilled material and place in a closed, labeled container for use or disposal.

Small Spills: Scoop up material for use according to label instructions.

SECTION 7 STORAGE AND HANDLING

Storage Requirements: 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.

Handling Precautions: Read the entire product label before using this rodenticide. Carefully follow all cautions, directions and use restrictions on the label. Avoid contact with eyes, skin or clothing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Special ventilation is not required for the normal handling and use of this product when following the label instructions.

Protective Clothing/Equipment: None required for normal handling.

Respirator: None required when used according to label instructions.

Contaminated Equipment: Damaged or unwanted bait stations and bait holders should be wrapped in paper and discarded in trash.

Comments: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this product. Wash arms, hands and face with soap and water after handling this product, and before eating and smoking.

Launder contaminated clothing separate from street clothes.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Physical State: Coarse meal
Water Solubility: Negligible

Color: Blue
% Volatilized (Volume): Not applicable

Odor: Raw grain odor
Specific Gravity: 0.74 g/cc

Melting Point: Not applicable
Vapor Pressure: Not applicable

Boiling Point: Not applicable
Vapor Density: Not applicable

Freezing Point: Not applicable
pH: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None

Hazardous Polymerization: Will not occur

Chemical Incompatibilities: None

Hazardous Products of Decomposition: Oxides of carbon

SECTION 11 TOXICOLOGICAL INFORMATION

Eye Effects/Eye Irritation: Mild, transient irritant

Acute Oral Effects: LD₅₀ (oral-rat): >5000 mg/kg

Acute Inhalation Effects: No data available

Acute Dermal Effects: LD₅₀ (dermal-rabbit): >2000 mg/kg

Skin Irritation: Non-irritating

Skin Sensitization: Not a skin sensitizer

SECTION 12 ECOLOGICAL INFORMATION

This product is toxic to fish and wildlife. 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 instructions 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 RCRA. 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 TRANSPORT 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: Not applicable
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.
OSH A Hazard Classification: Chronic health hazard.

Proposition 65: Contains no components subject to warning requirement.

SECTION 16 OTHER INFORMATION

Prepared by: T. Schmel Date: 8/1/2005
Information presented on this Material Safety Data Sheet is believed to be accurate at the 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 manuwharions of use, storage or local regulation.
Material Safety Data Sheet – InTice™ Granular Bait

Section 1: Identification:
Manufacturer: Rockwell Labs Ltd
1512 Taney St., N Kansas City, MO 64116
Emergency: (Spills) Call CHEMTREC: Domestic: 800-424-9300, International: 730-527-3887
For Accidental Pesticide Poisoning Call: 800 858 7378

Section 2: Hazardous Ingredients:
(Per 29 CFR 1910.1200)
Material: None
CAS No.  %  TWA  STEL
N/A

Section 3: Composition Information: Contains boric acid (5%) and food-grade attractants.

Section 4: First Aid Measures: Skin Contact: Remove contaminated clothing and wash with soap and water. For any persistent irritation, contact a physician. Ingestion: If more than a small spoonful is ingested, contact a physician or poison control center. If person is conscious, give two glasses of water and induce vomiting. Eye Contact: Flush with water for 15 minutes. For any persistent irritation, contact a physician.

Section 5: Fire Fighting Measures: Extinguishing Media: Carbon dioxide dry powder or foam; Flash Point: N/A; Flame Extension: N/A; Auto Ignition: N/A; Self contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. Flammability limits in air, % by vol: N/A. Unusual fire or explosion hazards: none known; Other Information: Boric acid itself is a flame retardant.

Section 6: Accidental Release Measures: Sweep up spilled material and dispose of in proper container. For large spills, shovel product into proper disposal containers and clean area with detergent and water.

Section 7: Handling and Storage: Store in closed containers, at room temperature, and away from excessive heat and moisture. Store out of reach of children, pets, or wildlife. Do not store above 100 °F.

Section 8: Exposure / Personal Protection: Wash hands thoroughly after use. Rubber gloves are recommended, as with all chemicals. Ventilation: not required; Respirator: not required; Eye protection: not required

Section 9: Physical and Chemical Properties: Vapor Pressure: N/A; Vapor Density: N/A; pH: N/A; Viscosity: N/A; Percent Volatiles by Volume: ca. 0%; Appearance: yellow-brown granules; Odor: slight, oily grain; Specific Gravity: 0.5 @ 25 °C; Solubility: insoluble in water and organic solvents; Evaporation Rate: N/A

Section 10: Stability and Reactivity: Stability: stable; Material Incompatibility: none known; Hazardous Polymerization: will not occur; Hazardous Decomposition Products: products of combustion are principally CO, CO2, and water.

Section 11: Toxicological Information: Eye Contact: may cause temporary discomfort or irritation; Skin Contact: may cause mild irritation; Inhalation: no known effects; Systemic/Other Effects: not known; Ingestion: Amount transferred to mouth by fingers, etc during normal use may not cause injury. Over-consumption may cause gastro-intestinal symptoms. Carcinogenicity: NTP -not listed; IARC Monographs – not listed; OSHA - not listed; AGIH – not listed.

Section 12: Ecological Information: Do not apply directly to water or to areas where surface water is present. Do not contaminate water when disposing of product.

Section 13: Disposal Considerations: Empty containers may be discarded in trash. Contact your local solid-waste agency for disposal of unused product.

Section 14: Transport Information: DOT Shipping Name: None required; DOT Hazard Class (49 CFR 172.101): non-hazardous; DOT Labels: not required; Freight classification: LTL Class 60

Section 15: Regulatory Information: EPA Reg. No.: 73079-2; This product contains no substances regulated by CERCLA or SARA Title III Section 313, Section 302, or Section 311/312.

Section 16: Other Information: Warranty: The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Rockwell Labs Ltd provides no warranties, express or implied, and assumes no responsibility for the accuracy and completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all data relevant to their particular use.
Bayer Environmental Science

Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL
MSDS Number: 102000005030
EPA Registration No.: 432-1264

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fipronil</td>
<td>120068-37-3</td>
<td>0.001</td>
</tr>
</tbody>
</table>

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview: Caution! May be harmful if swallowed. Avoid contact with skin, eyes and clothing. Keep exposed gel away from open food and food contact surfaces. Hazard to humans and domestic animals. Keep out of reach of children and animals.

Physical State: gel
Odor: sweet
Appearance: amber
Routes of Exposure: Ingestion, Skin contact, Eye contact

Immediate Effects
Eye: May cause mild irritation to eyes. Avoid contact with eyes.
Skin: Mild skin irritation. Avoid contact with skin and clothing.
Ingestion: May be harmful if swallowed. Do not take internally.

Chronic or Delayed Long-Term: This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

Medical Conditions Aggravated by Exposure
No specific medical conditions are known which may be aggravated by exposure to this product.

SECTION 4. FIRST AID MEASURES

General
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye
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.

Skin
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.

Ingestion
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation
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.

Notes to Physician Treatment
There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point
93.4 °C / 200.1 °F

Suitable Extinguishing Media
Water, Foam, Carbon dioxide (CO2), Dry chemical

Fire Fighting Instructions
Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES
**Material Safety Data Sheet**

**MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL**

**Personal Precautions**
Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

**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. Do not allow to enter soil, waterways or waste water canal.

### SECTION 7. HANDLING AND STORAGE

**Handling Procedures**
Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Product will stain porous surfaces.

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**Storing Procedures**
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals.

**Work/Hygienic Procedures**
Keep away from food, drink and animal feedingstuffs.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

**Min/Max Storage Temperatures**
Recommended maximum transport/storage temperature: 27 °C / 81 °F
The 30-day storage temperature average must not exceed the recommended maximum.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General Protection**
There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid contact with skin and eyes.

Follow all label instructions. Train employees in safe use of the product.

**Exposure Limits**

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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>OES BCS*</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>TWA</th>
<th>REL</th>
<th>Form of exposure</th>
<th>Respirable</th>
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Page 3 of 7
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MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

<table>
<thead>
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<th>NIOSH</th>
<th>REL</th>
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<td>5 mg/m³</td>
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<td>5 mg/m³</td>
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<tr>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Form of exposure</td>
<td></td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>US CA OEL</td>
<td>TWA PEL</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Form of exposure</td>
<td></td>
<td>5 mg/m³</td>
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<tr>
<td>US CA OEL</td>
<td>TWA PEL</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Form of exposure</td>
<td></td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>amber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>gel</td>
</tr>
<tr>
<td>Odor</td>
<td>sweet</td>
</tr>
<tr>
<td>pH</td>
<td>4.5 - 5.5</td>
</tr>
<tr>
<td>Density</td>
<td>1.27 g/cm³</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>60 °C / 140 °F</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Conditions to Avoid</th>
<th>Extremes of temperature and direct sunlight. Exposure to moisture.</th>
</tr>
</thead>
</table>
| Incompatibility     | Strong bases
|                     | Strong acids
|                     | Strong oxidizing agents |
| Hazardous Decomposition Products | Thermal decomposition
|                                 | Nitrogen oxides (NOx)
|                                 | Sulphur oxides
|                                 | Hydrogen fluoride (HF)
|                                 | Carbon oxides
|                                 | Hydrogen chloride (HCl) |
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL

Hazardous Reactions
Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, fipronil. The non-acute information pertains to technical-grade active ingredient.

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Toxicity</td>
<td>rat: LD50: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Acute Dermal Toxicity</td>
<td>rat: LD50: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>rabbit: Slight irritation.</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>rabbit: Minimally irritating.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>guinea pig: Non-sensitizing.</td>
</tr>
</tbody>
</table>

Chronic Toxicity
Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.

Assessment Carcinogenicity
Fipronil has been classified by EPA as a Category C carcinogen based on thyroid tumors in rats only. These tumors are produced by a mechanism which is not relevant to human cancer. Fipronil did not produce an increase in tumor incidence in mice.

ACGIH
None.

NTP
None.

IARC
None.

OSHA
None.

Reproductive & Developmental Toxicity
REPRODUCTION: Fipronil was not considered a primary reproductive toxicant in rats.

DEVELOPMENTAL TOXICITY: Fipronil was not a developmental toxicant in rats and rabbits.

Neurotoxicity
Fipronil caused transient neurobehavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.

Mutagenicity
Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Material Safety Data Sheet
MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BA\-T GEL

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions
Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

Container Disposal
Do not re-use empty containers. Place empty container in trash.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for Domestic Surface Transportation

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
None.

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
None.

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
Material Safety Data Sheet

MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL

None.

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.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 1  Flammability - 1  Reactivity - 0  Others - none
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated for general editorial purposes. Updated due to new system and numbering scheme.

Revision Date: 12/12/2007

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.
Safety Data Sheet

1. Product and Company Identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

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: 000000413986
Synonyms: Pyrethrins + piperonyl butoxide

2. Hazards Identification

Emergency overview

CAUTION:
EXTREMELY FLAMMABLE.
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
HARMFUL IF ABSORBED THROUGH SKIN.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Aerosol container contains flammable gas under pressure.

See Product Label for additional precautionary statements.

State of matter: liquid
Odour: characteristic

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 liquefied gases.

Acute toxicity:
Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

Irritation / corrosion:
May cause slight irritation to the eyes. May cause slight irritation to the skin.

Sensitization:
Safety Data Sheet
P.I.

Skin sensitizing effects were not observed in animal studies.

Signs and symptoms of overexposure:
Vomiting may cause aspiration pneumonia due to the ingredients.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8003-34-7</td>
<td>0.5 %</td>
<td>Pyrethrin</td>
</tr>
<tr>
<td>51-03-6</td>
<td>4.0 %</td>
<td>Piperonylbutoxide</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>&gt; 10.0 %</td>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>67-64-1</td>
<td></td>
<td>Acetone</td>
</tr>
<tr>
<td>68512-91-4</td>
<td>&gt;= 85.0 %</td>
<td>Hydrocarbons, C3 - C4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Proprietary ingredients</td>
</tr>
</tbody>
</table>

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. Do not give solids or liquids.

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

5. Fire-Fighting Measures

Flash point: -20 °C (Tag closed cup)
Flame Projection: > 18° NFPA 30B
Flammable: Level 3 aerosol.

Lower explosion limit: 2.2 % (V) (air)
Upper explosion limit: 9.5 % (V) (air)

Suitable extinguishing media:
foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:
carbon monoxide, carbon dioxide,
Safety Data Sheet

P.I.

Revision date: 2009/12/18
Version: 1.1

Aerosol container contains flammable gas under pressure. Pressure inside container is increased when heated, and may cause explosion. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

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.

Environmental precautions:
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/ firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA ("Superfund").

Cleanup:
Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

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:
Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Storage
General advice:
Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

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

Storage stability:
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**

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins</td>
<td>PEL 5 mg/m³</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td>Acetone</td>
<td>PEL 1,000 ppm; TWA 2,400 mg/m³</td>
<td>TWA 500 ppm; STEL 750 ppm</td>
</tr>
<tr>
<td>Propane</td>
<td>PEL 1,000 ppm; TWA 1,800 mg/m³</td>
<td>TWA 1,000 ppm</td>
</tr>
<tr>
<td>Distillates (petroleum),</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hydrotreated light</td>
<td>ACGIH</td>
<td>TWA 200 mg/m³ Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.</td>
</tr>
</tbody>
</table>

**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.
9. Physical and Chemical Properties

Form: aerosol
Odour: characteristic
pH value: neutral, The statements are based on the properties of the individual components.

Information on: 2-Propanone
Boiling range: approx. 56.1 °C
Information on: Distillates (petroleum), hydrotreated light;
Boiling point: 231 °C (1,031 hPa)

Vapour pressure: approx. 6550 hPa (approx. 20 °C)
Density: 0.80 g/cm³ (approx. 20 °C)
Solubility in water: soluble

10. Stability and Reactivity

Conditions to avoid:

Substances to avoid:
No substances known that should be avoided.

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
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:
Type of value: LC50
Species: rat
Value: > 4.53 mg/l

Dermal:
Type of value: LD50
Safety Data Sheet

Species: rabbit
Value: > 2,000 mg/kg

Irritation / corrosion:

Eye:
Species: rabbit
Result: non-irritant

Sensitization:

Species: guinea pig
Result: Caused skin sensitization in animal studies.

Genetic toxicity

Information on: pyrethrum
No mutagenic effects reported.

Information on: Piperonyl butoxide
Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Information on: Distillates (petroleum), hydrotreated light
In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. Literature data.

Information on: Acetone
In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays.

Carcinogenicity

Information on: pyrethrum
Not Likely to Be Carcinogenic to Humans.

Information on: Piperonyl butoxide
The US EPA has classified this substance with the rating of ‘C’, possible human carcinogen.

Reproductive toxicity

Information on: pyrethrum
No reproductive toxic effects reported.

Information on: Piperonyl butoxide
No reproductive toxic effects reported.

Information on: Acetone
In high doses a potential to impair fertility cannot be fully excluded.

Development:

Information on: pyrethrum
No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Information on: Piperonyl butoxide
No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Information on: Distillates (petroleum), hydrotreated light
No indications of a developmental toxic / teratogenic effect were seen in animal studies. Literature data.

Information on: Acetone
In animal studies the substance did not cause malformations.
12. Ecological Information

Fish

Information on: pyrethrum
Acute:
Onchorhynchus mykiss/LC50 (96 h): 0.0051 mg/l

Information on: Piperonyl butoxide
Acute:
other Onchorhynchus mykiss/LC50 (96 h): 6.12 mg/l

Information on: Distillates (petroleum), hydrotreated light
Acute:
Brachydanio rerio/LC50 (96 h): 7.3 mg/l
The product has not been tested. The statement has been derived from products of a similar structure and composition. Literature data.

Information on: Acetone
Acute:
other Flow through.
Salvelinus fontinalis/LC50 (96 h): 6,070 mg/l

-------------------------------

Aquatic invertebrates

Information on: pyrethrum
Acute:
Daphnia magna/EC50 (48 h): 0.0116 mg/l

Information on: Piperonyl butoxide
Acute:
other Daphnia magna/EC50 (48 h): 0.51 mg/l

Information on: Distillates (petroleum), hydrotreated light
Acute:
Daphnia magna/EL50 (48 h): 1.4 - 21 mg/l
The product has not been tested. The statement has been derived from products of a similar structure and composition. Literature data.

Information on: Acetone
Acute:
other static
Daphnia sp. (48 h): 7,635 mg/l

-------------------------------

Aquatic plants

Information on: Distillates (petroleum), hydrotreated light
Toxicity to aquatic plants:
algae/EC50 (72 h): 3.7 - 6.3 mg/l
Literature data.

Information on: Acetone
Toxicity to aquatic plants:
other static
green algae/Toxic limit concentration (192 h): 7,500 mg/l
13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

14. Transport Information

Reference Bill of Lading

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US blocked / not listed
Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories):
Acute; Chronic; Fire; Sudden release of pressure

EPCRA 313:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical name</th>
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</thead>
<tbody>
<tr>
<td>51-03-6</td>
<td>Piperonylbutoxide</td>
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</tbody>
</table>

CERCLA RQ

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical name</th>
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<tbody>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
</tr>
<tr>
<td>121-21-1</td>
<td>pyrethrins</td>
</tr>
</tbody>
</table>

State regulations

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA, NJ, PA</td>
<td>8003-34-7</td>
<td>Pyrethrins</td>
</tr>
<tr>
<td>MA, NJ, PA</td>
<td>67-64-1</td>
<td>Acetone</td>
</tr>
</tbody>
</table>

16. Other Information

Refer to product label for EPA registration number.

Recommended use: Insecticide

BASF supports 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
Local Contact Information
Product Stewardship
919 547-2000

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END OF DATA SHEET
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name            MAXFORCE® QUANTUM ANT BAIT
MSDS Number             102000018213
EPA Registration No.    432-1506

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Harmful if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Physical State highly viscous gel

Odor weak characteristic

Appearance colourless to yellowish

Routes of Exposure Skin contact, Skin Absorption, Eye contact

Immediate Effects
Eye Moderate eye irritation. Do not get in eyes.

Skin Harmful if absorbed through skin. Avoid contact with skin and clothing.

Chronic or Delayed Long-Term This product or its components may have target organ effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name Imidacloprid
CAS-No. 138261-41-3
Average % by Weight 0.03

SECTION 4. FIRST AID MEASURES
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

General When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable.

Eye 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.

Skin 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.

Ingestion Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Notes to Physician Treatment Treat symptomatically. There is no specific antidote.

<table>
<thead>
<tr>
<th>SECTION 5. FIRE FIGHTING MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
</tr>
<tr>
<td>Explosiveness</td>
</tr>
<tr>
<td>92/89/EEC, A.14 / OECD 113</td>
</tr>
<tr>
<td>Fire and Explosion Hazards</td>
</tr>
<tr>
<td>Suitable Extinguishing Media</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
</tr>
<tr>
<td>Fire Fighting Instructions</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

SECTIO 6. ACCIDENTAL RELEASE MEASURES
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

Personal Precautions
Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Keep unauthorized people away.

Methods for cleaning up
The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Additional Advice
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

Handling Procedures
No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Storing Procedures
Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Keep away from food, drink and animal feedingstuffs.

Work/Hygienic Procedures
When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/Face Protection
Safety glasses with side-shields or Goggles

Hand Protection
Chemical resistant nitrile rubber gloves

Body Protection
Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory Protection
When respirators are required, select NIOSH approved equipment based on
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>OES BCS</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imidacloprid</td>
<td>138261-41-3</td>
<td>OES BCS*</td>
<td>0.7 mg/m³</td>
</tr>
</tbody>
</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>colourless to yellowish</td>
</tr>
<tr>
<td>Physical State</td>
<td>highly viscous gel</td>
</tr>
<tr>
<td>Odor</td>
<td>weak characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>4 - 6 (10 %) at 23 °C</td>
</tr>
<tr>
<td>Density</td>
<td>approx. 1.43 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>approx. 6,900 mPa.s at 20 °C Velocity gradient 80 /s</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Reactions</td>
<td>No hazardous reactions when stored and handled according to prescribed instructions.</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
</tbody>
</table>

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies have been bridged from similar formulations containing a similar percentage of the active ingredient, imidacloprid. The non-acute information pertains to the technical-grade active ingredient.

**Acute Oral Toxicity**
rat: LD50: > 2,500 mg/kg
Test conducted with a similar formulation.

**Acute Dermal Toxicity**
rat: LD50: > 2,000 mg/kg
Test conducted with a similar formulation.

**Skin Irritation**
rabbit: No skin irritation.
Test conducted with a similar formulation.

**Eye Irritation**
rabbit: No eye irritation.
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

Test conducted with a similar formulation.

Sensitization
guinea pig: Non-sensitizing. Test conducted with a similar formulation.

Chronic Toxicity
Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

Assessment Carcinogenicity
Imidacloprid was not carcinogenic in studies in rats and mice.

ACGIH
None.
NTP
None.
IARC
None.
OSHA
None.

Reproductive toxicity
REPRODUCTION: Imidacloprid was not a reproductive toxicant in a multi-generation study in rats.

DEVELOPMENTAL TOXICITY: Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.

Neurotoxicity
Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish
Rainbow trout (Oncorhynchus mykiss)
LC50: 211 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient.

Toxicity to Aquatic Plants
Desmodesmus subspicatus
Growth rate
EC50: > 10 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient.

Acute Toxicity to Aquatic Invertebrates
Water flea (Daphnia magna)
EC50: 85 mg/l
Exposure time: 48 h
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

The value mentioned relates to the active ingredient.

Chironomus riparius (non-biting midge)
LC50: 0.0552 mg/l
Exposure time: 24 h
The value mentioned relates to the active ingredient.

Environmental Precautions
Do not allow to get into surface water, drains and ground water.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
Dispose in accordance with all local, state/provincial and federal regulations. Do not dispose of waste into sewer.

Container Disposal
Do not re-use empty containers. Consult state and local regulations regarding the proper disposal of container. Do not puncture or incinerate container.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for any mode of transport

FREIGHT CLASSIFICATION:
Insecticides or Fungicides, N.O.I.; other than poison

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1506

US Federal Regulations
TSCA list
None.

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
None.

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.
Material Safety Data Sheet
MAXFORCE® QUANTUM ANT BAIT

US State Right-To-Know Ingredients
None.

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.

SECTION 16. OTHER INFORMATION

Reason to Revise: New Material Safety Data Sheet.
Revision Date: 07/31/2009

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.
Material Safety Data Sheet

Woodstream Corporation
69 North Locust Street
Lititz, PA 17543

MSDS No: 412
Domestic Emergency Phone: 800-424-9300
International Emergency Phone: 703-527-3887
Information Phone: 800-800-1819
Intl Info Phone: 717-626-2125

SECTION I: MATERIAL IDENTIFICATION
Product Number/Size: M330 1 Each
Trade Name: PCO ROACH PHEROMONE TRAP
Also Known As: Roach Glue Trap
Description: Glue Trap
Chemical Composition: Hot Melt Adhesive/Pheromone
Exempt: Regulatory Licenses:

SECTION II: INGREDIENTS
Non-Hazardous Component(s) | CAS # | Chemical Formula
--- | --- | ---
Hot Melt Adhesive (Mixture) | N/A | Proprietary
German Cockroach Pheromone | N/A | N/A

SECTION III: PHYSICAL DATA
Boiling Point: Not Available
Vapor Pressure (mm Hg): Not Available
Vapor Density (AIR=1): HEAVIER THAN AIR
Bulk Density: 7.5 PPG
Freezing Point: Not Available
Solubility in Water: Insoluble
Appearance: Clear to Light Yellow Viscous Liquid

SECTION IV: FIRE AND EXPLOSION HAZARD DATA
Flash Point (method): >400°F
Autoignition Temp.: Not Available
Flammable Limit: Not Available
Flammable Limit: Not Available
Hazardous Products of Combustion: Carbon Oxides

NFPA Health Rating: Not Rated
NFPA Fire Rating: Not Rated
NFPA Reactivity Rating: Not Rated
Extinguishing Material: CO2, CHEMICAL FOAM

SECTION V: HEALTH HAZARD DATA
General Statement: None of the ingredients of this material meet the definition of "Hazardous Chemical" given in OSHA Hazard communication regulation 29 CFR 1910.1200(c).

Occupational Exposure Limit: No Limits
Effects of Over Exposure: None Expected
Carcinogenicity: None listed per OSHA, NTP, IARC
Chronic Effects: None Expected
Rec. Exp. Limits: No Limits
Potential Health Effects: None Expected
Acute Oral: Not Available
Acute Dermal: Not Available
Acute Inhalation: Not Available
Eye Irritation: Not An Irritant
Skin Irritation: Not An Irritant
Sensitization: Not A Sensitizer

Friday, May 30, 2003
<table>
<thead>
<tr>
<th>Route of Entry</th>
<th>Symptoms/Effects of Overexposure</th>
<th>First Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>None expected due to product form.</td>
<td>Due to product form not a reasonable route of exposure. If contact should occur wash with soap and water. If irritation occurs get medical attention.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>None expected due to product form.</td>
<td>Due to product form not a reasonable route of exposure.</td>
</tr>
<tr>
<td>Eye</td>
<td>None expected due to product form.</td>
<td>Due to product form not a reasonable route of exposure. If contact should occur get medical attention.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>None expected due to product form.</td>
<td>Due to product form not a reasonable route of exposure.</td>
</tr>
</tbody>
</table>

SECTION VI: REACTIVITY DATA

Stability: Stable

Conditions to avoid: Excessive Heat

Materials to avoid: Oils Will Dissolve Glue

Hazardous Decomposition: Will Not Occur

Conditions to avoid: None Known

Hazardous Polymerization: Will Not Occur

Conditions to avoid: None Known

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: Due to product form it can be picked up and placed in trash or restored. Glue can be dissolved using any vegetable oil. Apply vegetable oil to spilled glue, wipe up with rag and dispose of in trash receptacle.

Waste Disposal Method: Incinerate or manage at a permitted waste management facility. Dispose of in accordance with local, state and federal regulations.

Product Disposal Method: Discard used traps by securely wrapping in several layers of newspaper and discarding in trash.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not Required

Protective Gloves: Not Required

Eye Protection: Not Required

Protective Clothing: Not Required

Ventilation: Not Required

Other Protective Equipment: None Required

Protection Note: Personal protection information provided in this Section is based upon general information as to normal uses and conditions.

SECTION IX: SPECIAL PRECAUTIONS

Storage and Handling: Store in a cool dry area away from heat.

Other Precautions: Spilled glue can be dissolved using vegetable or mineral oils. Apply oil to glue and wipe up with rag.

Precaution Note: None

SECTION X: ECOLOGICAL INFORMATION

Ecotoxicity: Not Ecotoxic

Environmental Fate: Not Available
SECTION XI: TRANSPORTATION INFORMATION

DOT HAZARD DESCRIPTION

DOT Proper Shipping Name: Not Hazardous
Identification Number: N/A
DOT Hazard Class/Division: N/A
Packaging Group: N/A
Packaging Instructions: N/A
Special Instructions: N/A
Placard: Not Required
Emergency Response Guided: N/A
US Surface Freight Class: See NMFTA Manual

IATA CLASSIFICATION

IATA Proper Shipping Name: N/A
Identification Number: N/A
IATA Hazard Class/Division: N/A
Packaging Group: N/A
IATA Bulk Packaging Inst: N/A
IATA Shipping Notes: N/A

IMO CLASSIFICATION

IMO Proper Shipping Name: N/A
Identification Number: N/A
IMO Hazard Class/Division: N/A
Packaging Group: N/A
IMO Shipping Notes: N/A
IMO Bulk Packaging Inst: N/A
IMO Stowage Category: N/A

SECTION XII: REGULATORY INFORMATION

SARA Title III: Not Regulated
SARA Product Classification: Not Classified
Acute: N/A
Chronic: N/A
Fire: N/A
Reactivity: N/A
Pressure Generating: N/A
311/312 Hazard Categories: None
313 Reportable Ingredients: None
TSCA Regulatory: Not Regulated
State Regulations: None
Proposition 65 Statement: None Listed

SECTION XIII: OTHER INFORMATION

Memo: While this information and recommendations set forth are believed to be accurate as of the date hereof, Woodstream Corp. makes no warranty with respect hereto and disclaims all liability from reliance thereon.

Date MSDS Prepared: 1/5/2003
Supercedes Date: 2/1/2001
Contact: Nathan P. Ehresman
Title: Regulatory Affairs
1. Identification

Product identifier used on the label

TERMIDOR 9.1% SC.

Recommended use of the chemical and restriction on use
Recommended use*: insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

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

Telephone: +1 973 245-8000

Emergency telephone number

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

Other means of identification

Substance number: 256709
EPA Register number: 7999-210
Molecular formula: C₁₂H₄Cl₂F₆N₄O₅S
Chemical family: phenyl pyrazole
Synonyms: fipronil

2. Hazards Identification


Classification of the product

- Acute Tox. 4 (inhalation - vapour) Acute toxicity
- Acute Tox. 4 (oral) Acute toxicity
- STOT RE 2 Specific target organ toxicity — repeated exposure
Safety Data Sheet
TERMIDOR 9.1% SC.

Revision date: 2015/04/30
Version: 5.0

Label elements

Pictogram:

Signal Word:
Warning

Hazard Statement:
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (Prevention):
P271 Use only outdoors or in a well-ventilated area.
P261 Avoid breathing vapours.
P260 Do not breathe dust/gas/mist/vapours.
P270 Do not eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

Labeling of special preparations (GHS):
The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 3 % dermal
The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 5 % Inhalation - vapour
The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 5 % Inhalation - mist


Emergency overview

CAUTION:
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
HARMFUL IF INHALED.
Causes eye irritation.
Do not get in eyes, on skin, or on clothing.
Do not breathe vapours/mists.
Wash thoroughly after handling.
3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>120068-37-3</td>
<td>9.1 %</td>
<td>fipronil</td>
</tr>
<tr>
<td>137-20-2</td>
<td>0.3 - 1.0 %</td>
<td>Ethanesulfonic acid, 2-[methyl(1-oxo-9- octadeceny]amino]-, sodium salt, (Z)-1,2-benzisothiazol-3(2H)-one</td>
</tr>
<tr>
<td>2634-33-5</td>
<td>&lt; 0.1 %</td>
<td></td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>120068-37-3</td>
<td>9.1 %</td>
<td>fipronil</td>
</tr>
<tr>
<td>57-55-6</td>
<td>3.0 %</td>
<td>Propylene glycol</td>
</tr>
<tr>
<td></td>
<td>87.9 %</td>
<td>Proprietary ingredients</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:
Remove the affected individual into fresh air and keep the person calm.

If on skin:
Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes:
Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

Most important symptoms and effects, both acute and delayed

Symptoms: CNS stimulation, tremors, convulsions
Hazards: All injection injuries must be treated as potential threats to the future viability of the hand, foot, or limb. Injection wounds containing dirt, leather, product or other infectious detritus should be considered dangerous to the viability of the hand, foot or limb. Surgical exploration and debridement may be required.

Indication of any immediate medical attention and special treatment needed
Note to physician

Antidote: No known specific antidote.
Treatment: Treat symptomatically. Anticonvulsant therapy as routinely administered to humans. Based on animal studies diazepam and phenobarbital prevented convulsions. Due to the slow elimination of the active compound and its metabolites, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the clinical response.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
carbon monoxide, carbon dioxide, hydrogen fluoride, Hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Advice for fire-fighters
Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up
Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.
7. Handling and Storage

Precautions for safe handling
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:
The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Conditions for safe storage, including any incompatibilities
Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed. Protect from temperatures below: 0 °C Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time. Protect from temperatures above: 40 °C Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

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

Advice on system design:
Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or
Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:
Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:
Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>suspension</td>
</tr>
<tr>
<td>Odour characteristic</td>
<td>Not determined since harmful by inhalation.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>beige</td>
</tr>
<tr>
<td>pH value</td>
<td>7.2</td>
</tr>
<tr>
<td>onset of boiling</td>
<td>approx. 100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 208.96 °F</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>Information applies to the solvent. not applicable (20 °C)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>approx. 23.3 hPa</td>
</tr>
<tr>
<td>Density</td>
<td>1.06 g/cm³</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Information applies to the solvent. not applicable</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
### 10. Stability and Reactivity

**Reactivity**
No hazardous reactions if stored and handled as prescribed/indicated.

**Corrosion to metals:**
Corrosive effects to metal are not anticipated.

**Oxidizing properties:**
Not an oxidizer.
not fire-propagating

**Chemical stability**
The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**
The product is chemically stable.
Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

**Conditions to avoid**

**Incompatible materials**
strong acids, strong oxidizing agents, strong bases
strong oxidizing agents

**Hazardous decomposition products**

**Decomposition products:**
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

**Thermal decomposition:**
Possible thermal decomposition products:
carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide
11. Toxicological Information

Primary routes of exposure

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

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short-term inhalation.

Oral
Type of value: LD50
Species: rat
Value: 1,999 mg/kg

Inhalation
Type of value: LC50
Species: rat
Value: >1.7 mg/l
Exposure time: 4 h

Type of value: LC50
Species: rat
Value: 6.8 mg/l (calculated)
Exposure time: 1 h

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

Irritation / corrosion
Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

Skin
Species: rabbit
Result: Slightly irritating.

Eye
Species: rabbit
Result: Slightly irritating.

Sensitization
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Species: guinea pig
Result: Non-sensitizing.
Safety Data Sheet
TERMIDOR 9.1% SC.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Genetic toxicity
Assessment of mutagenicity: Not classified, due to lack of data.

Information on: fipronil
Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Carcinogenicity
Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Information on: fipronil
Assessment of carcinogenicity: In long-term studies in rats the substance induced thyroid tumors. In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.

Reproductive toxicity

Information on: fipronil
Assessment of reproduction toxicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Teratogenicity
Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Symptoms of Exposure

CNS stimulation, tremors, convulsions

Medical conditions aggravated by overexposure
Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

12. Ecological Information

Toxicity

Aquatic toxicity
Assessment of aquatic toxicity:
Very toxic (acute effect) to aquatic organisms.
Toxicity to fish
LC50 (96 h) 3.89 mg/l, Brachydanio rerio

Aquatic invertebrates
EC50 (48 h) 0.2 mg/l, Daphnia pulex

Aquatic plants

Information on: fipronil
EC50 (96 h) 0.068 mg/l (biomass), Scenedesmus subspicatus
EC50 (336 h) > 0.160 mg/l, Lemma minor
EC50 (120 h) > 0.140 mg/l, Selenastrum capricornutum
EC50 (120 h) > 0.170 mg/l, Anabaena flos-aquae
EC50 (120 h) > 0.120 mg/l, Navicula sp.

Assessment of terrestrial toxicity
With high probability not acutely harmful to terrestrial organisms.

Other terrestrial non-mammals

Information on: fipronil
LD50 (48 d) 0.00593 ug/bee (contact), Apis mellifera
LD50 (48 d) 0.00417 ug/bee (oral), Apis mellifera

Persistence and degradability

Elimination information

Not readily biodegradable (by OECD criteria).

Mobility in soil

Assessment transport between environmental compartments
The product has not been tested. The statement has been derived from the properties of the individual components.

Additional information

Other ecotoxicological advice:
The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)

Air transport
IATA/ICAO
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL 9%)

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US blocked / not listed
Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Acute; Chronic

State regulations

State RTK CAS Number Chemical name
PA 57-55-6 Propylene glycol

NFPA Hazard codes:
Labeling requirements under FIFRA

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

CAUTION:
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
HARMFUL IF INHALED.
Causes eye irritation.
Do not get in eyes, on skin, or on clothing.
Do not breathe vapours/mists.
Wash thoroughly after handling.

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/04/30

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. END OF DATA SHEET
1. Product and Company Identification

Use: insecticide

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

Substance number: 000000458813

2. Hazards Identification

Emergency overview

CAUTION:
EXTREME FLAMMABLE.
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Aerosol container contains flammable gas under pressure.

See Product Label for additional precautionary statements.

State of matter: liquid
Colour: amber, cloudy
Odour: characteristic, of acetone

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:
Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.
Irritation / corrosion:
May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin.

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

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8003-34-7</td>
<td>0.5 %</td>
<td>Pyrethrins</td>
</tr>
<tr>
<td>51-03-6</td>
<td>1.0 %</td>
<td>Piperonylbutoxide</td>
</tr>
<tr>
<td>113-48-4</td>
<td>1.0 %</td>
<td>n-Octyl bicycloheptene dicarboximide dimethyl ether</td>
</tr>
<tr>
<td>115-10-6</td>
<td></td>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>&lt;= 97.5 %</td>
<td>Proprietary ingredients</td>
</tr>
</tbody>
</table>

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:
Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not give solids or liquids.

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flammability of Aerosol Products:
NFPA 308 flammability:
Level 2 Aerosol

Suitable extinguishing media:
carbon dioxide, foam, dry powder, water spray

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide,
Aerosol container contains flammable gas under pressure. Pressure inside container is increased when heated, and may cause explosion. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

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.

Environmental precautions:
Do not discharge into the subsoil/solid. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/ firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA ("Superfund").

Cleanup:
Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

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:
Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Storage
General advice:
Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

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

Storage stability:
Safety Data Sheet
PT 565 PLUS XLO FORMULA 2

Revision date: 2011/08/25
Version: 5.0

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.

Temperature tolerance
Protect from temperatures above: 130 °F
Explosive at or above indicated temperature.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TWA value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins</td>
<td>5 mg/m3</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Distillates (petroleum),</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hydrotreated light</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: liquid, aerosol
Odour: characteristic, of acetone
Colour: amber, cloudy
pH value: 8.7 (23.4 °C)
Boiling point: The product has not been tested.
Vapour pressure: The product has not been tested.
Density: 0.859 g/cm³ (20 °C)
Vapour density: not determined
Partitioning coefficient n-octanol/water [log Pow]: not applicable
Viscosity, dynamic: 0.99 cps (20 °C)
Solubility in water: slightly soluble

10. Stability and Reactivity

Conditions to avoid:

Substances to avoid:
No substances known that should be avoided.

Hazardous reactions:
The product is chemically stable.

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
Possible thermal decomposition products: carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

Corrosion to metals:
Corrosive effects to metal are not anticipated.

11. Toxicological information

Acute toxicity

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

Inhalation:
Type of value: LC50
Species: rat
Value: > 7.4 mg/l

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

Irritation / corrosion
Skin:
Species: rabbit
Result: non-irritant
May cause slight irritation to the skin.

Eye:
Species: rabbit
Result: mildly irritating
May cause slight irritation to the eyes.

Sensitization:
Species: guinea pig
Result: Non-sensitizing.

Genetic toxicity
Information on: pyrethrum
No mutagenic effects reported.

Information on: Piperonyl butoxide
Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Information on: n-Octyl bicycloheptene dicarboximide
Results from a number of mutagenicity studies with microorganisms and mammalian cell culture are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Information on: dimethyl ether
No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. Literature data.

Carcinogenicity
Information on: pyrethrum
Not Likely to Be Carcinogenic to Humans.
Information on: Piperonyl butoxide
The US EPA has classified this substance with the rating of 'C', possible human carcinogen.

Reproductive toxicity
Information on: pyrethrum
No reproductive toxic effects reported.
Information on: n-Octyl bicycloheptene dicarboximide
No reproductive toxic effects reported.
Information on: Piperonyl butoxide
No reproductive toxic effects reported.
Information on: dimethyl ether
The results of animal studies gave no indication of a fertility impairing effect. Literature data.

Development:
Information on: pyrethrum
No indications of a developmental toxic / teratogenic effect were seen in animal studies.
Information on: n-Octyl bicycloheptene dicarboximide
No indications of a developmental toxic / teratogenic effect were seen in animal studies.
Information on: Piperonyl butoxide
No indications of a developmental toxic / teratogenic effect were seen in animal studies.
Information on: dimethyl ether
In animal studies the substance did not cause malformations. Literature data.

Other Information:

Misuse can be harmful to health.

12. Ecological Information

Fish

Acute:
Oncorhynchus mykiss/LC50 (96 h):

Information on: pyrethrum
Acute:
Oncorhynchus mykiss/LC50 (96 h): 0.0051 mg/l

Information on: Piperonyl butoxide
Acute:
other Oncorhynchus mykiss/LC50 (96 h): 6.12 mg/l

Information on: n-Octyl bicycloheptene dicyboximide
Acute:
Oncorhynchus mykiss/LC50 (96 h): 1.4 mg/l

Information on: dimethyl ether
Acute:
other semistatic
Poecilia reticulata/NOEC (96 h): > 4,000 mg/l

The product is highly volatile. Tested in a closed test system.

Aquatic invertebrates

Information on: Piperonyl butoxide
Acute:
other Daphnia magna/EC50 (48 h): 0.51 mg/l

Information on: dimethyl ether
Acute:
other static
Daphnia magna/No observed effect concentration (48 h): > 4,000 mg/l

The product is highly volatile. Tested in a closed test system.

Poorly biodegradable.

The product is highly volatile and can be eliminated from water by stripping.

13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinseate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.
14. Transport Information

Reference Bill of Lading

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US blocked / not listed
Crop Protection TSCA, US released / exempt

OSHA hazard category: Chronic target organ effects reported; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute; Chronic

CERCLA RQ CAS Number Chemical name
1 LBS 8003-34-7 Pyrethrins

State regulations

State RTK CAS Number Chemical name
MA, NJ, PA 8003-34-7 Pyrethrins
MA, NJ, PA 115-10-6 dimethyl ether
MA, NJ, PA 64742-47-8 Distillates (petroleum), hydrotreated light

16. Other Information

Refer to product label for EPA registration number.

Recommended use: Insecticide

NFPA Hazard codes:
Health: 1 Fire: 3 Reactivity: 1 Special:

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.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com
MSDS Prepared on: 2011/08/25

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 BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES 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
1. Identification

Product identifier used on the label

ALPINE DUST INSECTICIDE

Recommended use of the chemical and restriction on use
Recommended use*: insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

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

Telephone: +1 973 245-6000

Emergency telephone number

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

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

Other means of identification

Substance number: 395727
EPA Register number: 499-527
Synonyms: Dinotefuran

2. Hazards Identification


Classification of the product

Aquatic Acute 3 Hazardous to the aquatic environment - acute
Aquatic Chronic 3 Hazardous to the aquatic environment - chronic
Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

Labeling of special preparations (GHS):
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 7 % dermal
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 2 % Inhalation - dust
This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.


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.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>165252-70-0</td>
<td>0.25 %</td>
<td>1 Guanidine, N'-methyl-N-nitro-N'-(tetrahydro-3-furanyl)methyl</td>
</tr>
<tr>
<td>1309-37-1</td>
<td>1.0 - 3.0%</td>
<td>Iron oxide</td>
</tr>
<tr>
<td>1344-28-1</td>
<td>3.0 - 7.0%</td>
<td>Aluminum oxide</td>
</tr>
<tr>
<td>61790-53-2</td>
<td>&lt; 99.0%</td>
<td>Diatomaceous Earth</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>165252-70-0</td>
<td>0.25 %</td>
<td>1 Guanidine, N'-methyl-N-nitro-N'-(tetrahydro-3-furanyl)methyl</td>
</tr>
<tr>
<td>61790-53-2</td>
<td>99.75 %</td>
<td>Diatomaceous Earth</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If Inhaled:
Keep patient calm, remove to fresh air.
If on skin:
Wash thoroughly with soap and water.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:
Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed
Symptoms: No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media
Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
carbon monoxide, carbon dioxide, 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.

Advice for fire-fighters
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not
allow to enter drains or waterways. Dusty conditions may ignite explosively in the presence of an
ignition source causing flash fire.

6. Accidental release measures

Further accidental release measures:
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the
formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result
in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other
sources of ignition.

Personal precautions, protective equipment and emergency procedures
Take appropriate protective measures. Clear area. Shut off source of leak only under safe
conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear
suitable personal protective clothing and equipment.
Environmental precautions
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/ firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is not regulated by CERCLA ("Superfund").

Methods and material for containment and cleaning up
Dike spillage. 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

Precautions for safe handling
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:
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. Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Conditions for safe storage, including any incompatibilities
Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

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/Personal Protection

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

**Components with occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron oxide</td>
<td>PEL 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 fumes/smoke ;</td>
<td>TWA value 5 mg/m3 Respirable fraction ;</td>
</tr>
<tr>
<td>Aluminum oxide</td>
<td>PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ; TWA value 10 mg/m3 Total dust ; TWA value 5 mg/m3 Respirable fraction ;</td>
<td>TWA value 1 mg/m3 Respirable fraction ;</td>
</tr>
<tr>
<td>Diatomaceous Earth</td>
<td>OSHA PEL</td>
<td>TWA value 6 mg/m3 ; TWA value 0.8 mg/m3 ; The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits. TWA value 20 millions of particles per cubic foot of air ;</td>
</tr>
</tbody>
</table>

Advice on system design:
Whenever possible, engineering controls should be used to minimize the need for personal protective equipment. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**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.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>powder</td>
</tr>
<tr>
<td>Odour</td>
<td>earthy</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined due to potential health hazard by inhalation.</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
</tr>
<tr>
<td>pH value</td>
<td>approx. 7 - 8</td>
</tr>
<tr>
<td>(1 %)(m), 22.5 °C)</td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>760 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Based on the structure or composition there is no indication of flammability</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>not applicable</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td>Based on its structural properties the product is not classified as self-igniting.</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>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.</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>dispersible</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not applicable</td>
</tr>
<tr>
<td>Other Information</td>
<td>If necessary, information on other physical and chemical parameters is indicated in this section.</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effects to metal are not anticipated.
Oxidizing properties:
Based on its structural properties the product is not classified as oxidizing.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product is chemically stable.

Conditions to avoid
Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. 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.

Incompatible materials
organic acids

Hazardous decomposition products

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.

11. Toxicological information

Primary routes of exposure

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

Acute Toxicity/Effects

Acute toxicity

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

Inhalation
Type of value: LC50
Species: rat
Value: > 2.08 mg/l
Exposure time: 4 h
No mortality was observed.
Dermal
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg

Irritation / corrosion
Assessment of irritating effects: May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.

Skin
Species: rabbit
Result: non-irritant

Eye
Species: rabbit
Result: non-irritant

Sensitization
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Modified Buehler test
Species: guinea pig
Result: Non-sensitizing.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Kieselgur
Assessment of repeated dose toxicity: Repeated inhalation exposure may affect certain organs.

Information on: Aluminum oxide
Assessment of repeated dose toxicity: Repeated inhalative uptake of the substance did not cause substance-related effects.

Information on: Iron oxide
Assessment of repeated dose toxicity: The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition. Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).

Genetic toxicity
Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity
Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity
Safety Data Sheet
ALPINE DUST INSECTICIDE

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity
Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information
Misuse can be harmful to health.

Symptoms of Exposure
No significant reaction of the human body to the product known.

12. Ecological Information

Toxicity

Aquatic toxicity
Assessment of 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.

Toxicity to fish

Information on: 1 Guanidine, N"-methyl-N-nitro-N-[(tetrahydro-3-furanyl)methyl]-
LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss
LC50 (96 h) > 100 mg/l, Cyprinus carpio

Aquatic invertebrates

Information on: 1 Guanidine, N"-methyl-N-nitro-N-[(tetrahydro-3-furanyl)methyl]-
EC50 (48 h) > 1,000 mg/l, Daphnia magna
EC50 (96 h) 0.79 mg/l, Mysidopsis bahia

Persistence and degradability

Assessment biodegradation and elimination (H2O)
The product has not been tested. The statement has been derived from the properties of the individual components.

Bioaccumulative potential

Assessment bioaccumulation potential
The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment bioaccumulation potential

Information on: 1 Guanidine, N"-methyl-N-nitro-N-[(tetrahydro-3-furanyl)methyl]-
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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Mobility in soil

Assessment transport between environmental compartments
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1 Guanidine, N\(^\text{\textsuperscript{\textprime}}\)-methyl-N-nitro-N\(^\text{\textsuperscript{\textprime}}\)-[\((\text{tetrahydro-3-furanyl})\text{methyl}\)]-

Following exposure to soil, the product trickles away and can - dependent on degradation - be transported to deeper soil areas with larger water loads.

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Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

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
Safety Data Sheet
ALPINE DUST INSECTICIDE

Registration status:
Chemical TSCA, US blocked / not listed
Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Acute;

State regulations

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>1309-37-1</td>
<td>Iron oxide</td>
</tr>
<tr>
<td></td>
<td>1344-28-1</td>
<td>Aluminum oxide</td>
</tr>
<tr>
<td></td>
<td>61790-53-2</td>
<td>Diatomaceous Earth</td>
</tr>
<tr>
<td>MA</td>
<td>1309-37-1</td>
<td>Iron oxide</td>
</tr>
<tr>
<td></td>
<td>1344-28-1</td>
<td>Aluminum oxide</td>
</tr>
<tr>
<td></td>
<td>61790-53-2</td>
<td>Diatomaceous Earth</td>
</tr>
<tr>
<td>NJ</td>
<td>1309-37-1</td>
<td>Iron oxide</td>
</tr>
<tr>
<td></td>
<td>1344-28-1</td>
<td>Aluminum oxide</td>
</tr>
<tr>
<td></td>
<td>61790-53-2</td>
<td>Diatomaceous Earth</td>
</tr>
</tbody>
</table>

NFPA Hazard codes:
Health: 1 Fire: 0 Reactivity: 1 Special:

Labeling requirements under FIFRA

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

CAUTION:
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
May cause moderate but temporary irritation to the eyes.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/06/01

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END OF DATA SHEET