

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



MATERIAL SAFETY DATA SHEET

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

In Case of Emergency, Call
1-800-888-8372

1. PRODUCT IDENTIFICATION

Product Name: **ADVION COCKROACH GEL BAIT** Product No.: A20379A
EPA Signal Word: Caution
Active Ingredient(%): Indoxacarb (0.6%) CAS No.: 173584-44-6
Chemical Name: methyl (4aS)-7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]indeno[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

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Inert Ingredients (99.4%)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb (0.6%)	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable) *	No

* 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.

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

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow gel
Odor: None
Melting Point: Not Available
Boiling Point: Not Available
Specific Gravity/Density: 1.0755 g/ml @ 68°F (20°C)
pH: 6.08

Solubility in H₂O

Indoxacarb: Not Available

Vapor Pressure

Indoxacarb: Not Available

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.

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.

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

NFPA Hazard Ratings

Health: 2
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 1
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

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:		PREPARED BY:	TELEPHONE NO:
AP&G Co., Inc. 170 53 rd Street Brooklyn, NY 11232		AP&G Co., Inc.	(718) 492-3648
PRODUCT NAME:		USE:	
CATCHMASTER™ Brand Products <i>Insect and Rodent glue traps and monitors</i>		Rodent & Insect monitoring devices	
CHEMICAL NAME AND SYNONYM:		EPA ESTABLISHMENT NO:	EPA REGISTRATION NO:
N/A		48377-N.Y.-1	Not Required
ITEMS:			
72MB-Chocolate	Super Mouse Size Glue Boards		
72MB-Cherry	Super Mouse Size Glue Boards		
72MB-Peanut Butter	Super Mouse Size Glue Boards		
72MB	Regular Mouse Size Glue Boards		
72PBM	Mouse Size Glue Boards – Molasses		
72MB4.5	Mouse Size Glue Boards		
72MBGL	Mouse Size Glue Boards		
72TC	Mouse & Insect Glue Boards		
72TB	Tasty Banana Mouse Size Glue Boards		
72TBPB	Tasty Banana Mouse Size Glue Boards – Peanut Butter		
150MBGL	Mouse & Insect Size Glue Boards		
60RBGL	Econo Rat Glue Boards		
24GRB	Rat Size Glue Boards		
48R	Rat Size Glue Trays (With Hercules Putty™)		
48RNHP	Rat Size Glue Trays (W/O Hercules Putty™)		
48RB	Rat Size Trays (Bulk)		
48ROOF	Rat Size Glue Traps		
48WRG	Gold Temperature Glue Trays		
96M	Mouse Size Glue Trays		
100FF	Fruit Fly Traps		
100I	Insect Traps & Monitors		
150RI	Roach & Insect Traps & Monitors		
288I	Insect Traps & Monitors		
812B	Food & Pantry Moth Glue Traps		
BG-1-84	Bulk Glue EASYSPREAD – 1 Gallon		
BG-5-84	Bulk Glue EASYSPREAD – 5 Gallons		
9FS15	Fly Glue Strings		
900PRO	Fly Glue Trap Inserts for Luralite Professional Sconce		
907	Fly Glue Trap Inserts for Vector™ Products		
912	Mini Gold Sticks		
924	Fly Glue Traps for 901 Fly Light Unit		
925	Fly Glue Traps for 911 Fly Light Unit		
927	Fly Glue Traps for Pest West Mantis		
928	Fly Glue Traps for 910 Flu Light Unit		
930	Spider Web™ Fly Glue Traps		
948	Fly Glue Traps w/ Multi-Bait Attractant		
960PLL	Fly Glue Trap Inserts for P&L Open Air 80		
961PLL	Fly Glue Trap Inserts for P&L Open Air 30		
962	Large Gold Sticks		
9144B4	Scented Bug & Fly Catchers (Bulk)		
SECTION I – HAZARDOUS INGREDIENTS			
ACTIVE INGREDIENTS:		% BY WEIGHT:	CURRENT TLV:
None		N/A	N/A
SECTION II – PHYSICAL DATA			
APPEARANCE:	COLOR:	ODOR:	

Solid	Clear/Yellow	Scent Free or non allergenic synthetic scents
VAPOR DENSITY:	WATER REACTIVITY:	EVAPORATION RATE:
N/A	N/A	N/A
VAPOR PRESSURE:	BOILING POINT:	SOLUBILITY:
N/A	N/A	Soluble in mineral spirits
SECTION III – FIRE AND EXPLOSION DATA		
FLASH POINT (method used):	FLAMMABLE LIMIT:	AUTOIGNITION TEMP:
375° F	N/A	N/A
EXTINGUISHING MEDIA:	SPECIAL FIREFIGHTING PROCEDURES:	UNUSUAL FIRE OR EXPLOSION HAZARDS:
Extinguish with water, foam, or inert gas	None	None
SECTION IV – REACTIVITY HAZARD DATA		
STABILITY:	CONDITIONS TO AVOID:	POLYMERIZATION:
Stable	None	Will not occur
CONDITIONS TO AVOID:	INCOMPATIBILITY (materials to avoid)	HAZARDOUS DECOMPOSITION PRODUCTS:
None	None	None
SECTION V – TOXICITY DATA		
LD50, ORAL (ingestion):	LD50, DERMAL (skin contact):	LD50, INHALATION:
N/A	N/A	N/A
DERMAL SENSITIZATION:	SKIN IRRITATION:	EYE IRRITATION:
N/A	N/A	N/A
SECTION VI -		
PRIMARY ROUTE OF ENTRY:	SIGNS AND SYMPTOMS OF EXPOSURE:	
N/A	None	
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:	EYE PROTECTION:	GLOVES (recommended):
Not required	Not required	None
VENTILATION:	OTHER PROTECTIVE MEASURES:	
Not required	Not required	
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:		
HEALTH: 0 (minimal)	FIRE: 0 (minimal)	
REACTIVITY: 0 (minimal)	SPECIFIC HAZARD: None	
HAZARDOUS MATERIAL INFORMATION (HMIS) RATINGS:		
HEALTH: 0 (minimal)	FLAMMABILITY: 0 (minimal)	
REACTIVITY: 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**STORAGE TEMPERATURE:**

Room temperature

AVERAGE SHELF LIFE:

Stable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in original container in a cool, dust free environment.

SECTION X – SHIPPING DATA**DOT SHIPPING NAME:**

Not Required

DOT HAZARD CLASSIFICATION:

Non-hazardous

DOT LABELS REQUIRED:

Not Required

FREIGHT CLASSIFICATION:

LTL Class 60

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



The Chemical Company

Safety Data Sheet CY-KICK CS

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(30472209/SDS CPA US/EN)

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.

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Potential environmental effects

Aquatic toxicity:

Acutely toxic 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

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
68359-37-5	6.0 %	Cyfluthrin
	94.0 %	Proprietary ingredients

4. First-Aid Measures

General advice:

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

If Inhaled:

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

If on skin:

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

If in eyes:

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

If swallowed:

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

5. Fire-Fighting Measures

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.

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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.

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Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

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

Hand protection:

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

Eye protection:

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

Body protection:

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

General safety and hygiene measures:

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	
Odour:	characteristic	
Colour:	beige to yellow	
pH value:	7.5 - 8.5	
Freezing point:	approx. 0 °C	Information applies to the solvent.
Boiling point:	approx. 100 °C	Information applies to the solvent.
Density:	0.96 g/cm3	(approx. 20 °C)
Solubility in water:		dispersible

10. Stability and Reactivity

Conditions to avoid:

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

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

The product is chemically stable.

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Decomposition products:

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

Thermal decomposition:

Possible thermal decomposition products:

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

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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): 0.000068 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

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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:

<u>CAS Number</u>	<u>Chemical name</u>
68359-37-5	beta-Cifluthrine

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

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Safety Data Sheet

CY-KICK CS

Revision date : 2009/12/22

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Version: 1.0

(30472209/SDS_CPA_US/EN)

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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 POLYURETHANE FOAM ENTERPRISES LLC HEREUNDER ARE GIVEN GRATIS AND BASF POLYURETHANE FOAM ENTERPRISES LLC 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

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

MSDS Number: 102000015432

MSDS Version 1.0

Revision Date: 01/26/2007

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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	0.05

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**MSDS Number: 102000015432
MSDS Version 1.0

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

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	not applicable
Fire and Explosion Hazards	In the event of fire the following can be released: Sulphur oxides nitrogen oxides (NOx) Hydrogen fluoride
Suitable Extinguishing Media	Dry chemical, Foam, Water, Carbon dioxide (CO2)



Material Safety Data Sheet

MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL

MSDS Number: 102000015432
MSDS Version 1.0

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

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

SECTION 7. HANDLING AND STORAGE

- | | |
|---------------------------------|---|
| Handling Procedures | Product will stain porous surfaces. |
| Storing Procedures | 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. |
| 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. |

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- | | |
|-----------------------------|--|
| General Protection | Follow all label instructions. Train employees in safe use of the product.

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. |
| Engineering Controls | Ensure adequate ventilation. |
| Eye/Face Protection | protective eyewear |
| Hand Protection | Chemical resistant nitrile rubber gloves |

**Material Safety Data Sheet****MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL**MSDS Number: 102000015432
MSDS Version 1.0

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

Appearance brown
Physical State gel
Bulk Density 9.51 lbs/gal

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.
Conditions to Avoid Extremes of temperature and direct sunlight.
Exposure to moisture.
Incompatibility Strong oxidizing agents
Strong bases
Strong acids

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: > 2,000 mg/kg
Acute Inhalation Toxicity rat: LC50: > 2.9 mg/l
Exposure time: 4 h
rat: LC50: > 11.6 mg/l
Exposure time: 1 h
Extrapolated from the 4 hr LC50.
Skin Irritation rabbit: Slight irritation.
Eye Irritation rabbit: No eye irritation.
Sensitization guinea pig: Non-sensitizing.
Chronic Toxicity Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects



Material Safety Data Sheet

MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL

MSDS Number: 102000015432
MSDS Version 1.0

(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

MSDS Number: 102000015432
MSDS Version 1.0

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

MSDS Number: 102000015432
MSDS Version 1.0

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

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**Material Safety Data Sheet****MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL**MSDS Number: 102000005030
MSDS Version 2.0
Revision Date: 12/12/2007**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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	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**MSDS Number: 102000005030
MSDS Version 2.0

Medical Conditions	No specific medical conditions are known which may be aggravated by exposure
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

MSDS Number: 102000005030
MSDS Version 2.0

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.
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Exposure Limits

Fipronil	120068-37-3	OES BCS*		0.035 mg/m3
Sucrose	57-50-1	ACGIH	TWA	10 mg/m3
		NIOSH	REL	5 mg/m3
		Form of exposure	Respirable.	

**Material Safety Data Sheet****MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL**MSDS Number: 102000005030
MSDS Version 2.0

NIOSH	REL		10 mg/m3
Form of exposure		Total	
OSHA Z1	PEL		5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1	PEL		15 mg/m3
Form of exposure		Total dust.	
OSHA Z1A	TWA		5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1A	TWA		15 mg/m3
Form of exposure		Total dust.	
US CA OEL	TWA PEL		5 mg/m3
Form of exposure		Respirable fraction.	
US CA OEL	TWA PEL		10 mg/m3
Form of exposure		Total dust.	

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	amber
Physical State	gel
Odor	sweet
pH	4.5 - 5.5
Density	1.27 g/cm ³
Melting / Freezing Point	60 °C / 140 °F

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight. Exposure to moisture.
Incompatibility	Strong bases Strong acids Strong oxidizing agents
Hazardous Decomposition Products	Thermal decomposition Nitrogen oxides (NO _x) Sulphur oxides Hydrogen fluoride (HF) Carbon oxides Hydrogen chloride (HCl)

**Material Safety Data Sheet****MAXFORCE® FC PROFESSIONAL INSECT CONTROL™
ANT KILLER BAIT GEL**MSDS Number: 102000005030
MSDS Version 2.0**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**

MSDS Number: 102000005030
MSDS Version 2.0

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**

MSDS Number: 102000005030
MSDS Version 2.0

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.

MATERIAL SAFETY DATA SHEET

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 rodenticide with Difethialone

Manufacturer: Liphatech, Inc.

3600 W. Elm Street, Milwaukee, WI 53209

Emergency Phone: 414-351-1476 Monday-Friday, 8:00 am-4:30 pm CST

After Hours: Call CHEMTREC at 1-800-424-9300

SECTION 2 INGREDIENT INFORMATION

Hazardous Ingredient	CAS Number	OSHA PEL	ACGIH TLV	ACGIH STEL
Difethialone	104653-34-1	Not assigned	Not assigned	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 blood 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 K₁ intramuscularly or orally, as indicated in bishydroxycoumarin overdoses. 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

Flash 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 Instructions: 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 the 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	% Volatile (Volume):	Not applicable
Odor:	Raw grain odor	Specific Gravity:	0.74 g/cc
Melting Point:	Not available	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:	LD ₅₀ (oral-rat): >5000 mg/kg
Acute Inhalation Effects:	No data available
Acute Dermal Effects:	LD ₅₀ (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.

OSHA Hazard Classification: Chronic health hazard.

Proposition 65: Contains no components subject to warning requirement.

SECTION 16 OTHER INFORMATION

Prepared by: T. Schmit

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 manner/conditions 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

Product Name: InTice™ Granular Bait

Prepared By: SVT 8/09
Telephone: 866 788 4101

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.

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

MSDS Number: 102000005030

MSDS Version 2.0

Revision Date: 12/12/2007

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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	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.

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

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



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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				
Fipronil	120068-37-3	OES BCS*		0.035 mg/m3
Sucrose	57-50-1	ACGIH	TWA	10 mg/m3
		NIOSH	REL	5 mg/m3
		Form of exposure		Respirable.

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NIOSH	REL		10 mg/m3
Form of exposure		Total	
OSHA Z1	PEL		5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1	PEL		15 mg/m3
Form of exposure		Total dust.	
OSHA Z1A	TWA		5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1A	TWA		15 mg/m3
Form of exposure		Total dust.	
US CA OEL	TWA PEL		5 mg/m3
Form of exposure		Respirable fraction.	
US CA OEL	TWA PEL		10 mg/m3
Form of exposure		Total dust.	

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	amber
Physical State	gel
Odor	sweet
pH	4.5 - 5.5
Density	1.27 g/cm ³
Melting / Freezing Point	60 °C / 140 °F

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight. Exposure to moisture.
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™
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MSDS Version 2.0**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.



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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



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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.



The Chemical Company

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(30472287/SDS_CPA_US/EN)

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 liquified 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:

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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

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
8003-34-7	0.5 %	Pyrethrins
51-03-6	4.0 %	Piperonylbutoxide
64742-47-8	> 10.0 %	Distillates (petroleum), hydrotreated light
67-64-1		Acetone
68512-91-4		Hydrocarbons, C3 - C4
	>= 85.0 %	Proprietary ingredients

4. First-Aid Measures

General advice:

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

If inhaled:

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

If on skin:

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

If in eyes:

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

If swallowed:

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

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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:

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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

Pyrethrins	OSHA	PEL 5 mg/m3 ;
	ACGIH	TWA value 5 mg/m3 ;
Acetone	OSHA	PEL 1,000 ppm 2,400 mg/m3 ;
	ACGIH	TWA value 500 ppm ; STEL value 750 ppm ;
propane	OSHA	PEL 1,000 ppm 1,800 mg/m3 ;
	ACGIH	TWA value 1,000 ppm ;
Distillates (petroleum), hydrotreated light	ACGIH	TWA value 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.

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

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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:	aerosol	
Odour:	characteristic	
pH value:		neutral, The statements are based on the properties of the individual components.
<i>Information on: 2-Propanone</i>		
Boiling range:	approx. 56.1 °C	
<i>Information on: Distillates (petroleum), hydrotreated light;</i>		
Boiling point:	231 °C	(1,031 hPa)
<hr/>		
Vapour pressure:	approx. 6550 hPa	(approx. 20 °C)
Density:	0.80 g/cm ³	(approx. 20 °C)
Solubility in water:		soluble

10. Stability and Reactivity

Conditions to avoid:

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

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

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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.

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12. Ecological Information

Fish

Information on: pyrethrum

Acute:

Oncorhynchus mykiss/LC50 (96 h): 0.0051 mg/l

Information on: Piperonyl butoxide

Acute:

Oncorhynchus 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:

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 - 8.3 mg/l

Literature data.

Information on: Acetone

Toxicity to aquatic plants:

other static

green algae/Toxic limit concentration (192 h): 7,500 mg/l

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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:

CAS Number

51-03-6

Chemical name

Piperonylbutoxide

CERCLA RQ

5000 LBS

1 LBS

CAS Number

67-64-1

121-21-1

Chemical name

Acetone

pyrethrin I

State regulations

State RTK

MA, NJ, PA

MA, NJ, PA

CAS Number

8003-34-7

67-64-1

Chemical name

Pyrethrins

Acetone

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

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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

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END OF DATA SHEET



Material Safety Data Sheet

MAXFORCE® QUANTUM ANT BAIT

MSDS Number: 102000018213
MSDS Version 1.0
Revision Date: 07/31/2009

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

SECTION 4. FIRST AID MEASURES

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MSDS Version 1.0

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.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	No flash point - Determination conducted up to the boiling point.
Explosiveness	Not explosive. 92/69/EEC, A.14 / OECD 113
Fire and Explosion Hazards	In the event of fire the following may be released: Carbon monoxide (CO)
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet
Fire Fighting Instructions	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. 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. In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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MSDS Version 1.0

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	<p>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.</p> <p>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.</p> <p>Keep away from food, drink and animal feedingstuffs.</p>
Work/Hygienic Procedures	<p>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.</p> <p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</p>

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**MSDS Number: 102000018213
MSDS Version 1.0

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

Exposure Limits

Imidacloprid	138261-41-3	OES BCS*	0.7 mg/m ³
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*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colourless to yellowish
Physical State	highly viscous gel
Odor	weak characteristic
pH	4 - 6 (10 %) at 23 °C
Density	approx. 1.43 g/cm ³ at 20 °C
Viscosity	approx. 6,900 mPa.s at 20 °C Velocity gradient 80 /s

SECTION 10. STABILITY AND REACTIVITY

Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability	Stable under recommended storage conditions.

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.



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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 *Desmodium 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



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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.



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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

International Emergency Phone

Information Phone

Intl Info Phone:

800-424-9300

703- 527-3887

800-800-1819

717-626-2125

SECTION I: MATERIAL IDENTIFICATION

Product Number/Size: M330 1 Each

Trade Name: PCO ROACH PHERMONE TRAP

Also Known As: Roach Glue Trap

Description: Glue Trap

Chemical Composition: Hot Melt Adhesive/Pheromone

Regulatory Licenses: Exempt

SECTION II: INGREDIENTS

<u>Non-Hazardous Component (s)</u>	<u>CAS #</u>	<u>Chemical Formula</u>
Hot Melt Adhesive (Mixture)	N/A	Proprietary
German Cockroach Pheromone	N/A	N/A

SECTION III: PHYSICAL DATA

Boiling Point: Not Available

Viscosity: Not Available

Vapor Pressure (mm Hg): Not Available

Odor: Mild

Vapor Density (AIR=1): HEAVIER THAN AIR

Specific Gravity (Water=1): 0.875

Bulk Density: 7.5 PPG

Percent, Volatile by Volume %: Not Available

Freezing Point: Not Available

Evaporation Rate (Xylene=1): Not Available

Solubility in Water: Insoluble

Physical State: Viscous Liquid

Appearance: Clear to Light Yellow Viscous Liquid

pH: Not Available

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method): >400°F

NFPA Health Rating: Not Rated

Autoignition Temp.: Not Available

NFPA Fire Rating: Not Rated

Flammable Lel: Not Available

NFPA Reactivity Rating: Not Rated

Flammable Uel: Not Available

Extinguishing Material: CO2 , CHEMICAL FOAM

Hazardous Products
of Combustion: Carbon Oxides

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

<u>Route of Entry</u>	<u>Symptoms/Effects of Overexposure</u>	<u>First Aid</u>
Skin	None expected due to product form.	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.
Inhalation	None expected due to product form.	Due to product form not a reasonable route of exposure.
Eye	None expected due to product form.	Due to product form not a reasonable route of exposure. If contact should occur get medical attention.
Ingestion	None expected due to product form.	Due to product form not a reasonable route of exposure.

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 Require
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 Guide#: N/A
US Surface Freight Class: See NMFTA Manual

IATA CLASSIFICATION

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

IMO CLASSIFICATION

IMO Proper Shipping Name:
Identification Number: N/A
IMO Hazard Class/Division:
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
Supersedes Date: 2/1/2001

Contact: Nathan P. Ehresman
Title: Regulatory Affairs



We create chemistry

Safety Data Sheet TERMIDOR 9.1% SC.

Revision date : 2015/04/30

Version: 5.0

Page: 1/12

(30357978/SDS_CPA_US/EN)

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: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 256709

EPA Register number: 7969-210

Molecular formula: C₁₂ H₄ Cl₂ F₆ N₄ O S

Chemical family: phenyl pyrazole

Synonyms: fipronil

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity
STOT RE	2	Specific target organ toxicity — repeated exposure

Safety Data Sheet

TERMIDOR 9.1% SC.

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Label elements

Pictogram:



Signal Word:
Warning

Hazard Statement:

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

Precautionary Statements (Prevention):

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

Precautionary Statements (Response):

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

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
------	---

Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 % Inhalation - mist

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

CAUTION:

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

HARMFUL IF INHALED.

Causes eye irritation.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapours/mists.

Wash thoroughly after handling.

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3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
120068-37-3	9.1 %	fipronil
137-20-2	0.3 - 1.0 %	Ethanesulfonic acid, 2-[methyl(1-oxo-9-octadecenyl)amino]-, sodium salt, (Z)-
2634-33-5	< 0.1 %	1,2-benzisothiazol-3(2H)-one

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
120068-37-3	9.1 %	fipronil
57-55-6	3.0 %	Propylene glycol
	87.9 %	Proprietary ingredients

4. First-Aid Measures

Description of first aid measures

General advice:

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

If inhaled:

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

If on skin:

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

If in eyes:

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

If swallowed:

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

Most important symptoms and effects, both acute and delayed

Symptoms: CNS stimulation, tremors, convulsions

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

Indication of any immediate medical attention and special treatment needed

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Note to physician

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

5. Fire-Fighting Measures

Extinguishing media

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

Special hazards arising from the substance or mixture

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

Advice for fire-fighters

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

Further information:

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

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

Methods and material for containment and cleaning up

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

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7. Handling and Storage

Precautions for safe handling

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

Protection against fire and explosion:

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

Conditions for safe storage, including any incompatibilities

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

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

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

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

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or

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Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

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

Eye protection:

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

Body protection:

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

General safety and hygiene measures:

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

9. Physical and Chemical Properties

Form:	suspension	
Odour:	characteristic	
Odour threshold:		Not determined since harmful by inhalation.
Colour:	beige	
pH value:	7.2	(10 g/l)
onset of boiling:	approx. 100 °C	(1,013 hPa) Information applies to the solvent.
Flash point:	> 206.96 °F	
Lower explosion limit:		As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:		As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:		Information applies to the solvent. not applicable
Vapour pressure:	approx. 23.3 hPa	(20 °C) Information applies to the solvent.
Density:	1.06 g/cm3	(20 °C)
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable

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Self-ignition temperature:	not self-igniting	
Thermal decomposition:	carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.	
Viscosity, dynamic:	approx. 1,600 - 1,850 mPa.s	(21.6 °C)
Solubility in water:		dispersible
Molar mass:	437.15 g/mol	
Evaporation rate:		not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

not fire-propagating

Chemical stability

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

Possibility of hazardous reactions

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

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

Incompatible materials

strong acids, strong oxidizing agents, strong bases
strong oxidizing agents

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide

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Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

11. Toxicological information

Primary routes of exposure

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

Acute Toxicity/Effects

Acute toxicity

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

Oral

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

Inhalation

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

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

Dermal

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

Irritation / corrosion

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

Skin

Species: rabbit
Result: Slightly irritating.

Eye

Species: rabbit
Result: Slightly irritating.

Sensitization

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

Species: guinea pig
Result: Non-sensitizing.

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Chronic Toxicity/Effects

Repeated dose toxicity

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

Genetic toxicity

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

Information on: fipronil

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

Carcinogenicity

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

Information on: fipronil

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

Reproductive toxicity

Information on: fipronil

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

Teratogenicity

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

Symptoms of Exposure

CNS stimulation, tremors, convulsions

Medical conditions aggravated by overexposure

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

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.

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Toxicity to fish

LC50 (96 h) 3.89 mg/l, *Brachydanio rerio*

Aquatic invertebrates

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

Aquatic plants

Information on: fipronil

EC50 (96 h) 0.068 mg/l (biomass), *Scenedesmus subspicatus*

EC50 (336 h) > 0.160 mg/l, *Lemna minor*

EC50 (120 h) > 0.140 mg/l, *Selenastrum capricornutum*

EC50 (120 h) > 0.170 mg/l, *Anabaena flos-aquae*

EC50 (120 h) > 0.120 mg/l, *Navicula* sp.

Assessment of terrestrial toxicity

With high probability not acutely harmful to terrestrial organisms.

Other terrestrial non-mammals

Information on: fipronil

LD50 (48 d) 0,00593 ug/bee (contact), *Apis mellifera*

LD50 (48 d) 0,00417 ug/bee (oral), *Apis mellifera*

Persistence and degradability

Elimination information

Not readily biodegradable (by OECD criteria).

Mobility in soil

Assessment transport between environmental compartments

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

Additional information

Other ecotoxicological advice:

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

13. Disposal considerations

Waste disposal of substance:

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

Container disposal:

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

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

RCRA:

This product is not regulated by RCRA.

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, 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
PA

CAS Number
57-55-6

Chemical name
Propylene glycol

NFPA Hazard codes:

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Health : 2 Fire: 1 Reactivity: 1 Special:

Labeling requirements under FIFRA

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

CAUTION:

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

HARMFUL IF INHALED.

Causes eye irritation.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapours/mists.

Wash thoroughly after handling.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2015/04/30

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

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

END OF DATA SHEET



The Chemical Company

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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:
EXTREMELY 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.

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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

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

4. First-Aid Measures

General advice:

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

If inhaled:

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

If on skin:

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

If in eyes:

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

If swallowed:

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 > 18 in (ASTM D 3065)

Products:

NFPA 30B 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,

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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:

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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

Pyrethrins	OSHA ACGIH	PEL 5 mg/m3 ; TWA value 5 mg/m3 ;
Distillates (petroleum), hydrotreated light	ACGIH	TWA value 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.

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.

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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:

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.

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

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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

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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 dicarboximide

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 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.

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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

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
1 LBS	8003-34-7	Pyrethrins

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
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

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END OF DATA SHEET



We create chemistry

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ALPINE DUST INSECTICIDE

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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

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

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

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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.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

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

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
165252-70-0	0.25 %	1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-
1309-37-1	1.0 - 3.0%	Iron oxide
1344-28-1	3.0 - 7.0%	Aluminum oxide
61790-53-2	< 99.0%	Diatomaceous Earth

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
165252-70-0	0.25 %	1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-
61790-53-2	99.75 %	Diatomaceous Earth

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

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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.

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Environmental precautions

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

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.

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8. Exposure Controls/Personal Protection

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

Components with occupational exposure limits

Iron oxide	OSHA PEL	PEL 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 fumes/smoke ;
	ACGIH TLV	TWA value 5 mg/m3 Respirable fraction ;
Aluminum oxide	OSHA PEL	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 ;
	ACGIH TLV	TWA value 1 mg/m3 Respirable fraction ;
Diatomaceous Earth	OSHA PEL	TWA value 6 mg/m3 ; TWA value 0.8 mg/m3 ; The exposure limit is calculated from the equation, $80/(\%SiO_2)$, using a value of 100% SiO_2 . Lower percentages of SiO_2 will yield higher exposure limits. TWA value 20 millions of particles per cubic foot of air ;

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.

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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

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

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

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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

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

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.

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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

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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]-

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Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

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

Information on: 1 Guanidine, N"-methyl-N-nitro-N'-[(tetrahydro-3-furanyl)methyl]-

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

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

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Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Acute;

State regulations

State RTK	CAS Number	Chemical name
PA	1309-37-1	Iron oxide
	1344-28-1	Aluminum oxide
	61790-53-2	Diatomaceous Earth
MA	1309-37-1	Iron oxide
	1344-28-1	Aluminum oxide
	61790-53-2	Diatomaceous Earth
NJ	1309-37-1	Iron oxide
	1344-28-1	Aluminum oxide
	61790-53-2	Diatomaceous Earth

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

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

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