

## ADVION COCKROACH GEL BAIT

Date: 3/17/2014  
Replaces: 11/1/2013

### 1. PRODUCT IDENTIFICATION

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

Product No.: A20379A

Use: Insecticide

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

Manufacturer Phone: 1-800-334-9481

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

### 2. HAZARDS IDENTIFICATION

Classifications: Skin Sensitizer: Category 1B  
Signal Word (OSHA): Warning  
Hazard Statements: May cause an allergic skin reaction

Hazard Symbols:



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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other inert ingredients	Other inert ingredients	Not Applicable	99.4%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.6%

## ADVION COCKROACH GEL BAIT

Date: 3/17/2014  
Replaces: 11/1/2013

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

### 4. FIRST AID MEASURES

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

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

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

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

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

#### Most important symptoms/effects:

Allergic skin reaction

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

There is no specific antidote if this product is ingested.

Treat symptomatically.

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

### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media.

Specific Hazards:

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

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

Special protective equipment and precautions for firefighters:

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

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

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

## ADVION COCKROACH GEL BAIT

Date: 3/17/2014

Replaces: 11/1/2013

**7. HANDLING AND STORAGE**

Precautions for safe handling:

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

Conditions for safe storage, including any incompatibilities:

Not Applicable

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

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

Occupational Exposure Limits:

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

Appropriate engineering controls:

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

Individual protection measures:

Ingestion:

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

Eye Contact:

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

Skin Contact:

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

Inhalation:

A respirator is not normally required when handling this substance.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellow gel

Odor: None

Odor Threshold: Not Available

pH: 6.08

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

## ADVION COCKROACH GEL BAIT

Date: 3/17/2014  
Replaces: 11/1/2013

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

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal

Symptoms of exposure: Rash, redness or itching

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

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

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

## ADVION COCKROACH GEL BAIT

Date: 3/17/2014  
Replaces: 11/1/2013

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Reproductive/Developmental Effects

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

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

Chronic/Subchronic Toxicity Studies

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

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

Carcinogenicity

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

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

Did not cause genetic damage in animals.

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

None

Toxicity of Other Components

Other inert ingredients

Not Applicable

Target OrgansActive Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other inert ingredients: Not Applicable

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**12. ECOLOGICAL INFORMATION**Eco-Acute Toxicity

Indoxacarb Technical:

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

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

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

Environmental Fate

Indoxacarb Technical:

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

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

## ADVION COCKROACH GEL BAIT

Date: 3/17/2014  
Replaces: 11/1/2013

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### 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

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### 14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA  
Not regulated

Comments

Water Transport - International  
Not regulated

Air Transport  
Not regulated

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### 15. REGULATORY INFORMATION

Pesticide Registration:

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

Caution: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):

100-1484

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

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

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## ADVION COCKROACH GEL BAIT

Date: 3/17/2014  
Replaces: 11/1/2013

### 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

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/25/2013

Revision Date: 3/17/2014

Replaces: 11/1/2013

Section(s) Revised: 1 - 16

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

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02

Version: 1.1

Page: 1/8

(552911/SDS\_CPA\_US/EN)

### 1. Product and Company Identification

Company

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

24 Hour Emergency Response Information

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

Registrant:

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

Substance number: 000000552911  
Synonyms: Dinotefuran

### 2. Hazards Identification

Emergency overview

CAUTION:  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
Causes eye irritation.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: solid  
Colour: white  
Odour: odourless

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

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

**Acute toxicity:**

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

**Irritation / corrosion:**

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

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02

Version: 1.1

Page: 2/8

(552911/SDS\_CPA\_US/EN)

### **Sensitization:**

Skin sensitizing effects were not observed in animal studies.

### **Medical conditions aggravated by overexposure:**

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

### **Potential environmental effects**

### **Aquatic toxicity:**

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

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## 3. Composition / Information on Ingredients

<b><u>CAS Number</u></b>	<b><u>Content (W/W)</u></b>	<b><u>Chemical name</u></b>
165252-70-0	40.0 %	Dinotefuran
	60.0 %	Proprietary ingredients

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## 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.

### **Note to physician**

Antidote:	No known specific antidote.
Treatment:	Treat symptomatically.

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## 5. Fire-Fighting Measures

Autoignition: not applicable

### **Suitable extinguishing media:**

water spray, dry powder, foam

### **Unsuitable extinguishing media for safety reasons:**

water jet, carbon dioxide

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02  
Version: 1.1

Page: 3/8  
(552911/SDS\_CPA\_US/EN)

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

carbon monoxide, carbon dioxide, nitrogen oxides, acid halides  
The substances/groups of substances mentioned can be released in case of fire.

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

Wear self-contained breathing apparatus and chemical-protective clothing.

### **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:**

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately. Information regarding personal protective measures see, section 8.

### **Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### **Cleanup:**

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

For small amounts: Pick up with suitable appliance and dispose of. Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Contain with dust binding material and dispose of.

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## 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 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 dust formation. 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.

### **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 foods and animal feeds.

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02

Version: 1.1

Page: 4/8

(552911/SDS\_CPA\_US/EN)

### Temperature tolerance

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 and Personal Protection

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

### Advice on system design:

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

### Personal protective equipment

#### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

##### Respiratory protection:

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

##### Hand protection:

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

##### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles).

##### 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:	granules	
Odour:	odourless	
Colour:	white	
pH value:	6.2	( 22.8 °C)
Bulk density:	0.511 g/cm3	
	4.2645 Lb/USg	
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		not applicable

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02  
Version: 1.1

Page: 5/8  
(552911/SDS\_CPA\_US/EN)

### 10. Stability and Reactivity

**Dust explosivity characteristics:**

Kst: 74 m.bar/s

**Minimum ignition energy:**

> 100 mJ, 7.1 bar

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

**Substances to avoid:**

strong oxidizing agents

**Hazardous reactions:**

The product is chemically stable.

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

**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.

**Oxidizing properties:**

not fire-propagating

### 11. Toxicological information

**Acute toxicity****Oral:**

Type of value: LD50

Species: rat (female)

Value: > 5,000 mg/kg

**Inhalation:**

Type of value: LC50

Species: rat (male/female)

Value: > 2.07 mg/l

Exposure time: 4 h

**Dermal:**

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg

**Irritation / corrosion****Skin:**

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02

Version: 1.1

Page: 6/8

(552911/SDS\_CPA\_US/EN)

Species: rabbit  
Result: Slightly irritating.

### Eye:

Species: rabbit  
Result: mildly irritating

### Sensitization:

Buehler test  
Species: guinea pig  
Result: Skin sensitizing effects were not observed in animal studies.

### Repeated dose toxicity

Information on: Dinotefuran  
Experimental/calculated data:  
rat (male) day  
NOAEL: 100 mg/kg  
rat (female) day  
NOAEL: 127 mg/kg  
dog (male) day  
NOAEL: 559 mg/kg  
dog (female) day  
NOAEL: 22 mg/kg  
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### Carcinogenicity

Information on: Dinotefuran  
No data available concerning carcinogenic effects.  
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### Reproductive toxicity

Information on: Dinotefuran  
No data available concerning reproduction toxicity.  
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### Development:

Information on: Dinotefuran  
No data available concerning teratogenic effects.  
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## 12. Ecological Information

### Fish

Information on: Dinotefuran  
Acute:  
Oncorhynchus mykiss/LC50 (96 h): = >100 ppm  
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### Aquatic invertebrates

Information on: Dinotefuran  
Acute:  
Daphnia magna/EC50 (48 h): >1000 ppm  
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### Aquatic plants

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02

Version: 1.1

Page: 7/8

(552911/SDS\_CPA\_US/EN)

*Information on: Dinotefuran*

*Toxicity to aquatic plants:*

*green algae/EC50 (72 h): > 100 mg/l*

*swollen duckweed/EC50: >110 ppm*

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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:**

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:**

The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments. This product is not regulated by RCRA.

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### 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

**OSHA hazard category:**            No data available.;

**EPCRA 311/312 (Hazard categories):**            Not hazardous;

#### **State regulations**

##### **CA Prop. 65:**

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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### 16. Other Information

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

# Safety Data Sheet

## Alpine® WSG

Revision date : 2012/08/02  
Version: 1.1

Page: 8/8  
(552911/SDS\_CPA\_US/EN)

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Recommended use: insecticide

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

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### MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2012/08/02

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



Material Safety Data Sheet  
For Avenger® Weed Killer Ready to Use (RTU)  
**Cutting Edge Formulations, Inc.**  
3057 Summer Oak Place  
Buford, GA 30518  
April, 2013

## **MATERIAL SAFETY DATA SHEET**

### **for Avenger® Weed Killer Ready to Use (RTU)**

(EPA Registration Number: 82052 - 3)

#### **Emergency Phone Numbers:**

Cutting Edge Formulations: (678) 546-5009  
CHEMTREC 24 Hour Number (800) 424-9300

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### **Section 1 – IDENTIFICATION**

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Product Name: Avenger® Weed Killer Ready to Use (RTU) Herbicide

<b>Section 2 – INGREDIENT INFORMATION</b>
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Avenger Weed Killer Ready to Use (RTU) Herbicide consists of:  
d-Limonene (technical grade): 17.5% (CAS Number: 5989-27-5)  
Emulsifiers: 0 to 8%  
Water: 72 to 78%

<b>Section 3 –HEALTH HAZARDS IDENTIFICATION</b>
---

**Health Hazards:** May cause moderate eye irritation. Avoid contact with skin, eyes, or clothing.  
**Signs and Symptoms of Exposure:** Product may be irritating to the skin, eyes, nose and throat.

#### **Emergency & First Aid Procedures :**

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

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes. Then continue rinsing eye. Call a poison control center or doctor for treatment advice. Call a poison control center or doctor for treatment advice

The toxicity parameters of the primary ingredient, d-Limonene, is as follows:

It is not acutely toxic.

Oral: LD50 >5 g/kg, rabbit

Dermal: LD50 >5 g/kg, rabbit

Skin: The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively.

Sensitization: d-Limonene is not a sensitizer.

Inhalation: LC50 >1000 ppm

Hazardous Materials Identification System - HMIS:

1 Health Hazard - Mild skin irritant

2 Flammability - Flashpoint 126° F (52°C), as determined by TAG Closed Cup

0 Reactivity - Stable

G Protection - Safety glasses, gloves

This substance contains no materials subject to the reporting requirements of SARA TITLE III SECTION 313.

Chronic Toxicity: Not listed as a carcinogen (OSHA, NTP, IARC, or ACGIH)

Ecotoxicological Information: Product may be toxic to aquatic organisms.

<b>Section 4 –PHYSICAL DATA</b>
---------------------------------

Appearance: Cloudy liquid

Odor: Orange or lemon-lime aroma

Specific Gravity: 0.956 g/ml (59.7 lb/ cu. ft.) at 68°F (20°C )

Flashpoint: 126°F (52°C), as determined by TAG Closed Cup

pH: aqueous mixture containing 1% v/v of RTU has a pH of 8.0 at 68°F (20°C)

Viscosity: 4.0 cps at 23°C with #2 spindle at 30 RPM.

<b>Section 5 – FIRE AND EXPLOSION HAZARD DATA</b>
---

**Flash Point:** 126°F (52°C)

**Extinguishing Media:** Carbon dioxide, foam or dry chemical

**Special Fire Fighting Procedures:** SCBA recommended. Smother to exclude air. Do not use water. Handle as an oil fire.

**Unusual Fire and Explosive Hazards:** Combustible liquid. Keep away from heat, sparks, and open flame.

**Hazardous Decomposition Materials:** Smoke may be acrid and the fumes may be irritating. Burning generates CO, CO<sub>2</sub>, and smoke.

**Conditions to Avoid for Stability:** Avoid temperatures over 122° F (50°C)

<b>Section 6 – SPILL OR LEAK PROCEDURES</b>
---

-

**Steps to be Taken if Material is Released or Spilled:** Use protective gloves to avoid skin contact. Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal.

<b>Section 7 –SPECIAL PROTECTION INFORMATION</b>
--

Eye Protection: Safety goggles or glasses suggested.

Skin Protection: Oil resistant gloves.

Appropriate Hygienic Practices: Wash thoroughly after handling. Launder contaminated clothing before re-use.

<b>Section 8 – SPECIAL PRECAUTIONS</b>
--

Precautions to be Taken in Handling and Storing: Usual precautions for combustible liquids.

<b>Section 9 – REGULATORY INFORMATION</b>
---

Avenger Weed Killer RTU is registered as a pesticide with the U.S. Environmental Protection Agency (EPA). EPA Registration Number: 82052 - 3

<b>Section 10 – TRANSPORTATION INFORMATION</b>
--

TDG Status: Hazardous DOT Label/Placard [exemption § 173.150(f) applies]  
IMO Status: Hazardous Highway/Rail: per requirements for Combustible Liquids  
IATA Status: Hazardous Air/Ship: per requirements for Flammable Liquids

**SHIPPING CLASSIFICATION:**

Proper Shipping Name: TERPENE HYDROCARBONS, N.O.S.

Hazard Class: 3

Identification No.: UN2319

Packing Group: III

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

<b>Section 11 – ADDITIONAL INFORMATION</b>
--

National Fire Protection Association Hazard Ratings - NFPA(R):

- 1 Health Hazard - Slight
- 2 Flammability - Moderate
- 0 Reactivity - Minimal

**Key Legend Information:**

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration

NTP National Toxicology Program

IARC International Agency for Research on Cancer 4

The information contained herein is based on current knowledge and experience: no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information obtained by the user. No warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. This information is furnished upon the condition the person receiving it shall determine the suitability for the particular purpose. This MSDS is to be used as a guideline for safe work practices and emergency response.



**Cutting Edge Formulations, Inc.**

3057 Summer Oak Place

Buford, GA 30518

April, 2013

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18

Version: 3.2

Page: 1/7

(30472240/SDS\_CPA\_US/EN)

### 1. Product and Company Identification

Company

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

24 Hour Emergency Response Information

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

Registrant:

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

Substance number: 000000396123  
Synonyms: Abamectin B1

### 2. Hazards Identification

Emergency overview

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

See Product Label for additional precautionary statements.

State of matter: solid  
Colour: brown  
Odour: mild

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

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

**Acute toxicity:**

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

**Irritation / corrosion:**

May cause slight but temporary irritation to the eyes. Contact may result in skin irritation.

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18  
Version: 3.2

Page: 2/7  
(30472240/SDS\_CPA\_US/EN)

### Sensitization:

Skin sensitizing effects were not observed in animal studies.

## 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
71751-41-2	0.05 %	Abamectin
	99.05 %	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:

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

### Note to physician

Treatment: Treat symptomatically.

## 5. Fire-Fighting Measures

Flash point:

Substance/product is non-flammable.

### Suitable extinguishing media:

dry powder, carbon dioxide, water spray

### Hazards during fire-fighting:

carbon monoxide, carbon dioxide,

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

### Protective equipment for fire-fighting:

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

### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18  
Version: 3.2

Page: 3/7  
(30472240/SDS\_CPA\_US/EN)

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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. Sweep/shovel up. Avoid raising dust. Use wet cleaning methods when applicable. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

---

### 7. Handling and Storage

#### **Handling**

##### **General advice:**

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

##### **Protection against fire and explosion:**

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

#### **Storage**

##### **General advice:**

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

##### **Storage incompatibility:**

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

##### **Storage stability:**

May be kept indefinitely if stored properly. If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

---

### 8. Exposure Controls and Personal Protection

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

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18

Version: 3.2

Page: 4/7

(30472240/SDS\_CPA\_US/EN)

### 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. Breathing protection if breathable aerosols/dust are formed.

##### Hand protection:

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

##### Eye protection:

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

##### Body protection:

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

##### General safety and hygiene measures:

#### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS

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

## 9. Physical and Chemical Properties

Form:	powder	
Odour:	mild	
Colour:	brown	
pH value:	4.9	( 1 %(m))
Melting point:		not applicable
Boiling point:		not applicable
Relative density:	0.619	( 23 °C)
Bulk density:	672.8 kg/m3	
Vapour density:		not determined
Solubility in water:		insoluble

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

### Substances to avoid:

caustics

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18  
Version: 3.2

Page: 5/7  
(30472240/SDS\_CPA\_US/EN)

### Hazardous reactions:

The product is chemically stable.  
No hazardous reactions when stored and handled according to instructions.

### 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  
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

### Corrosion to metals:

Corrosive effects to metal are not anticipated.

### Oxidizing properties:

Not an oxidizer.

---

## 11. Toxicological information

### Acute toxicity

#### Oral:

Type of value: LD50  
Species: rat (male/female)  
Value: > 5,000 mg/kg (other)

#### Inhalation:

Type of value: LC50  
Not inhalable due to the physico-chemical properties of the product.

#### Dermal:

Type of value: LD50  
Species: rabbit (male/female)  
Value: > 2,000 mg/kg (other)

### Irritation / corrosion

#### Skin:

Species: rabbit  
Result: non-irritant  
Method: Primary skin irritation test

#### Eye:

Species: rabbit  
Result: non-irritant  
Method: Primary eye irritation test  
May cause slight irritation to the eyes.

### Genetic toxicity

*Information on: Abamectin*

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

### Carcinogenicity

*Information on: Abamectin*

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18

Page: 6/7

Version: 3.2

(30472240/SDS\_CPA\_US/EN)

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

### Reproductive toxicity

*Information on: Abamectin*

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

### Development:

*Information on: Abamectin*

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

---

## 12. Ecological Information

### Fish

*Information on: Abamectin*

*Acute:*

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

### Aquatic invertebrates

*Information on: Abamectin*

*Acute:*

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

### Aquatic plants

*Information on: Abamectin*

*Toxicity to aquatic plants:*

*OECD Guideline 201 static*

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

*Not readily biodegradable (by OECD criteria).*  
-----

---

## 13. Disposal considerations

### Waste disposal of substance:

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

### Container disposal:

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

---

## 14. Transport Information

Reference Bill of Lading

# Safety Data Sheet

## AVERT DRY FLOWABLE ROACH BAIT

Revision date : 2011/07/18

Version: 3.2

Page: 7/7

(30472240/SDS\_CPA\_US/EN)

### 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

### 16. Other Information

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

Recommended use: insecticide

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

#### MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

MSDS Prepared on: 2011/07/18

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

END OF DATA SHEET

# MATERIAL SAFETY DATA SHEET

---

## Product Name: Bifen L/P Insecticide Granules

---

This product has been prepared to meet the requirements as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200: the EO Directive, 91/155/EEC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise nee

---

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

MATERIAL NAME: Bifen L/P Insecticide Granules  
CHEMICAL NAME: Bifenthrin  
CHEMICAL FAMILY: Pyrethroid Pesticide  
EPA Reg. No.: 53883-124

---

### SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS COMPONENT

---

	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Bifenthrin	0.20	82657-04-3	not listed	not listed

---

### SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

---

#### EMERGENCY OVERVIEW:

- Tan, solid granules with a slightly musty odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.

POTENTIAL HEALTH HAZARDS: Effects from overexposure result from absorption through the skin or may result from inhaling the dust. Overexposure to this product may cause diarrhea. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

---

### SECTION 4 - FIRST AID MEASURES

---

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center 800-222-1222.	
Note to Physician - This product is a pyrethroid. If large amounts have been ingested, milk cream and other digestible fats and oils may increase absorption and should be avoided.	

---

### SECTION 5 - FIRE FIGHTING MEASURES

---

EXTINGUISHING MEDIA: Foam, CO2 or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

FIRE / EXPLOSION HAZARDS: Slightly combustible. This material may support combustion at elevated temperatures.

FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen flouride.

---

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

---

**RELEASE NOTES:** Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

Keep material out of lakes, streams, ponds and sewer drains. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13, "Disposal Considerations".

---

## SECTION 7 – HANDLING AND STORAGE

---

### KEEP OUT OF REACH OF CHILDREN

#### PROHIBITIONS

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

#### PESTICIDE STORAGE

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

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

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

#### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

Paper and plastic bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

---

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

---

**ENGINEERING CONTROLS:** Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

#### PERSONAL PROTECTIVE EQUIPMENT:

**EYES AND FACE:** For dust exposure, wear chemical protective goggles or a face shield.

**RESPIRATORY:** For splash, mist or spray exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**WORK HYGIENIC PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

#### GLOVES:

Wear chemical protective gloves made of materials such as rubber, neoprene, or PVC. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

---

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

---

**ODOR:** Slightly musty

**APPEARANCE:** Tan solid granule

**DENSITY:** 1.39 g/mL (85 - 89 lb/cu ft.)

**MOLECULAR WEIGHT:** 422.88 (bifenthrin)

---

## SECTION 10 - STABILITY AND REACTIVITY

---

**CHEMICAL STABILITY:** Stable.

**CONDITIONS TO AVOID:** High temperatures and fire.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

---

## SECTION 11 - TOXICOLOGICAL INFORMATION

---

### ACUTE TOXICITY:

DERMAL LD<sub>50</sub>: >2000 mg/kg (rabbit)

ORAL LD<sub>50</sub>: >5000 mg/kg (rat)

ACUTE EFFECTS FROM OVEREXPOSURE: This product has low oral and dermal toxicity. It is non-irritating to the eyes and skin. Excessive exposure to dust may irritate the respiratory system, skin and eyes. This product caused diarrhea in laboratory animals. Bifenthrin does not cause acute delayed neurotoxicity. Experience to date indicates that contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin.

### CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

OTHER: Not Listed (ACGIH).

---

## SECTION 12 - ECOLOGICAL INFORMATION

---

Unless otherwise indicated, the data presented below are for the active ingredient.

ENVIRONMENTAL DATA: In soil, bifenthrin is stable over a wide pH range and degrades at a slow rate which is governed by soil characteristics. Bifenthrin will also persist in aquatic sediments. Bifenthrin has a high Log Pow (>6.0), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for bifenthrin to bioconcentrate (BCF = 11, 750).

ECOTOXICOLOGICAL INFORMATION: Bifenthrin is highly toxic to fish and aquatic arthropods and LC50 values range from 0.0038 to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on mollusks at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds (LD50 values range from 1,800 mg/kg to >2,150 mg/kg).

---

## SECTION 13 – DISPOSAL CONSIDERATIONS

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WASTE: Dispose of in accordance with applicable Federal, state and local laws and regulations.

CONTAINER: Completely empty bag into application equipment. Do not reuse container. Dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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## SECTION 14 – TRANSPORT INFORMATION

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DOT SHIPPING DESCRIPTION: Insecticides, NOI, other than Poison. NMFC Item 102120.

DOT HAZARD CLASS: not regulated

UN NUMBER: N/A

DOT PACKING GROUP: N/A

DOT PRIMARY/SUBSIDIARY LABEL: N/A

DOT PRIMARY/SUBSIDIARY PLACARD: N/A

DOT EMERGENCY RESPONSE GUIDE #: N/A

REPORTABLE QUANTITY (RQ): None

MARINE POLLUTANT #1: bifenthrin (Severe Marine Pollutant - see 'Other Shipping Information' below)

OTHER SHIPPING INFORMATION:

Bifenthrin is a severe marine pollutant, but is not regulated in concentrations less than 1%. This material is not regulated for transport via any mode.

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## SECTION 15 - REGULATORY INFORMATION

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### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370): Immediate, Delayed

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370): The threshold planning quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs. This product contains the following ingredients with a TPQ of less than 10,000 lbs.: None

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372): There are no ingredients in this product which are subject to Section 313 reporting requirements.

**FIFRA:** All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

**OSHA HAZARD COMMUNICATION STANDARD STATUS:** Regulated

**CERCLA REPORTABLE QUANTITY:** N/A

**CALIFORNIA PROP 65 STATUS:** Not listed

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The information herein is given in good faith, but no warranty, expressed or implied, is made.

Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041  
(281) 892-2500

**EMERGENCY TELEPHONE NUMBERS:** (800) 424-9300 (CHEMTREC, transportation and spills)  
(800) 222-1222 (Poison Control Center, human health)

Date: 03-09-07

# Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. This Standard must be  
consulted for specific requirements.

## U.S. Department of Labor

Occupational Safety and Health  
Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

<b>IDENTITY</b> ( <i>As Used on Label and List</i> ) <b>ST. Gabriel Organics BurnOut II Concentrate</b> Active ingredient: Clove Oil 18%, Citric Acid 30% Inert ingredients: Mineral oil, (USP), Water, Gum Arabic Total other 52% Total 100%	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate this.
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### Section I

Manufacturer's Name: <b>St. Gabriel Organics</b>	Emergency Telephone Number <b>(800) 801-0061 Toll Free</b>
Address: <b>14044 Litchfield Drive</b>	Telephone Number for Information <b>(540) 672-0866</b>
<b>Orange, Virginia</b> <b>22960</b>	Date Revised: November 6, 2008 Revised by: Cathy A. Stiles

### Section II - Physical/Chemical Characteristics

<b>Boiling Point</b>	<b>Data not found</b>	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.05
<b>Vapor Pressure (mm Hg.)</b>	<b>Data not found</b>	<b>Melting Point</b>	N/A
<b>Vapor Density (AIR = 1)</b>	<b>Data not found</b>	<b>Evaporation Rate (Butyl Acetate = 1)</b>	<1.0
<b>Solubility in Water</b> Not soluble – forms an emulsion			
<b>Appearance and Odor</b> <b>Appearance: Milky White      Odor: Clove smell</b>			

**Section III - Fire and Explosion Hazard Data**

<b>Flash Point (Method Used)</b> Not known	<b>Flammable Limits</b> Not tested	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media</b> Foam, Carbon Dioxide, or Dry Chemical extinguishers			
<b>Special Fire Fighting Procedures</b> Self contained breathing apparatus.			
.			
<b>Unusual Fire and Explosion Hazards</b> NONE			
<b>Hazardous Decomposition Products:</b> Acid Vapors, Carbon Dioxide, Carbon Monoxide			

**Section IV - Reactivity Data**

<b>Stability:</b> Reacts with organic and inorganic bases.			<b>Conditions to Avoid:</b> Contact with skin, eyes, or prolong inhalation. Do not ingest product.
<b>Incompatibility:</b> Bases and caustic compounds (alkaline compounds)			
<b>Hazardous Decomposition or Byproducts</b> None Known			
<b>Hazardous Polymerization</b> Will not occur.			.

**Section V - Health Hazard Data**

<b>Route(s) of Entry:</b>	<b>Inhalation?</b> Yes	<b>Skin?</b> YES	<b>Ingestion?</b> YES
<b>Health Hazards:</b> Contact with this product will result in eye irritation. Contact with this product will cause severe skin irritation. Breathing vapors will cause significant respiratory irritation. Ingestion of this product could cause burns and destroy tissue in the mouth, throat, and digestive tract.			
<b>Carcinogenicity:</b>	<b>NTP?</b> N/A	<b>IARC Monographs?</b> N/A	<b>OSHA Regulated?</b> N/A

<p><b>Emergency and First Aid Procedures: Inhalation:</b> Remove person to fresh air. Seek immediate medical assistance.</p> <p><b>Ingestion:</b> Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinsing mouth with water and give milk or water to drink. If possible, do not leave individual unattended.</p> <p><b>Skin:</b> Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse and discard contaminated shoes.</p> <p><b>Eyes:</b> Immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Call a physician immediately.</p>

#### Section VI - Precautions for Safe Handling and Use

<p><b>Steps to Be Taken in Case Material is Released or Spilled:</b> Cover the contaminated surface with sodium bicarbonate or a soda ash/flaked lime mixture (50-50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing procedures are essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spilled area.</p>
<p><b>Waste Disposal Method:</b>  <b>If Empty</b> - Do not reuse container. Place in trash or offer for recycling if available.  <b>If Partly Filled</b> – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.</p>
<p><b>Precautions to be taken in Handling and Storing</b>  Avoid contact with eyes, skin or clothing. Keep bottle/container tightly closed and store in a cool, dry place.</p>
<p><b>Other Precautions</b>  NA</p>

## Section VII - Control Measures

<b>Ventilation:</b> Product for outdoor use only.	<b>Local Exhaust</b> N/A	<b>Special</b> N/A

<b>Protective Gloves:</b> Wear Neoprene, Nitrile, or oil/solvent resistant gloves.	<b>Eye Protection</b> Wear chemical goggles when handling the product and during application.
<b>Other Protective Clothing or Equipment:</b> Wear long sleeved shirt, long pants, socks and shoes.	

## Section VIII - Special Precautions

<b>Precautions to be taken in Handling and Storing:</b> Keep container tightly closed when not in use. Store only in the original container in a cool, dry place.

The above information is believed to be correct, but does not purport to be all inclusive. This data should be used only as a guide in handling this material. BurnOut II concentrate/St. Gabriel Organics shall not be held liable for any damage resulting from handling or from direct contact with this product.



# SAFETY DATA SHEET

## D-Fense SC

### 1. IDENTIFICATION

Product name: **D-Fense SC**  
Product type: Insecticide  
EPA Registration No.: 53883-276  
Chemical name of active ingredient(s): **Deltamethrin**: [(S)-alpha-Cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate]  
Manufacturer/Registrant: Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507  
For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300  
For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050  
Poison Control Center Phone: 1-800-222-1222

### 2. HAZARDS IDENTIFICATIONS

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

##### Acute Toxicity:

Exposure Route	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	NC	NC	4	NC	NC	NC

NC: Not classified

**SIGNAL WORD:** Caution

##### HAZARD STATEMENT:

- Harmful in inhaled
- Toxic to aquatic organisms,

##### PICTOGRAM:



##### PRECAUTIONARY STATEMENTS:

- Avoid breathing vapors/spray. Use only in a well-ventilated area. If inhaled: Remove victim to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.

**PHYSICAL CHEMICAL HAZARDS:** Do not use water-based sprays of Delta 4.75% SC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

Contact Chemtrec for emergency medical treatment at 1- 800-424-9300.

**STORAGE AND DISPOSAL:** See Section 7 and 13.

**OTHER HAZARDS:** See Section 11 and 12.

# SAFETY DATA SHEET

## D-Fense SC

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Deltamethrin	52918-63-5	4.75	NE	NE	NA	IARC – 3*
Silicon Dioxide (Crystalline Free)	112945-52-5	2	10mg/m <sup>3</sup> (nuisance dust)	10mg/m <sup>3</sup> (total dust)	NA	NA
Xanthan Gum	11138-66-2	0.5–0.3	15mg/m <sup>3</sup> (total dust) (8h TWA) 5mg/m <sup>3</sup> (respirable) (8h TWA)	NE	NE	NA
Propylene Glycol	57-55-6	2	NE	NE	10 mg/m <sup>3</sup> **	NA

NE= Not established; NA= Not applicable

\* IARC Group 3: The agent (mixture or exposure circumstance) is unclassifiable as to carcinogenicity to humans.

\*\* WEEL: Workplace Environmental Exposure Levels

### 4. FIRST AID MEASURES

FIRST AID	
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® (866) 897-8050 for emergency medical treatment information.	

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** NA

**FLAMMABLE LIMITS:** NA

**EXTINGUISHING MEDIA:** Water fog, CO<sub>2</sub>, foam, dry chemical.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Pesticide fires have potential to emit hazardous decomposition products.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release irritating and toxic gases due to thermal decomposition. Products of combustion include oxides of carbon and nitrogen.

**FIRE-FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

### 6. ACCIDENTAL RELEASE MEASURES

**SPILL CLEANUP:** In case of spill on floor or paved surfaces, sweep up and remove to chemical waste storage area until proper disposal can be made. Rinse contaminated material with water and absorb with clay granules or universal absorbent pads. Dispose of with chemical waste.

# SAFETY DATA SHEET

## D-Fense SC

**CONTAINMENT:** Do not discharge waste into municipal wastewater or public storm drains. Eliminate runoff as much as possible.

### 7. HANDLING AND STORAGE

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

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Avoid breathing vapors and spray mist. Wash hands thoroughly with soap after handling pesticides and before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Mix as needed. Store in original container in a secured dry storage area. Avoid extremes in temperatures. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking and/or material is spilled, on floor or paved surfaces, absorbed on sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for your disposal. Concentrate is stable at normal storage temperatures.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

**EYE PROTECTION:** Protective eyewear or chemical safety glasses

**SKIN PROTECTION:** Long-sleeve shirt, long pants, shoes plus socks.

**HAND PROTECTION:** Chemical-resistant gloves.

**RESPIRATOR REQUIREMENTS:** None required. Use NIOSH approved air purifying respirator or filtering face piece with N or P class filter when working in non-ventilated areas.

**ADDITIONAL PROTECTIVE MEASURES:**

Eyre wash facility and safety shower should be available. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

**Users Should:**

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

**EXPOSURE LIMITS:** Refer to Section 3.

**ENGINEERING CONTROLS:** Use only in adequately ventilated areas.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** White liquid

**ODOR:** Odorless

**ODOR THRESHOLD:** Not available

**pH:** 6.0

**FLASH POINT:** Not available

# SAFETY DATA SHEET

## D-Fense SC

**DENSITY:** 1.04 g/mL@20°C

**WATER SOLUBILITY:** Not available

**VISCOSITY:** 5,000 cps @ 6 rpm; 3,000 cps @ 12 rpm

**FLAMMABILITY (Solid, Gas):** Not applicable

**UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS:** Not available

**AUTO-IGNITION TEMPERATURE:** Not available

**EXPLODABILITY:** Not applicable

**SOLUBILITY:** Not available

**PARTITION COEFFICIENT (n-OCTANOL/WATER):** Not available

**VAPOR PRESSURE:** Not available

**VAPOR DENSITY:** Not available

**MELTING POINT/FREEZING POINT:** Not applicable

**BOILING POINT:** Not available

**EVAPORATION RATE:** Not available

**DECOMPOSITION TEMPERATURE:** Not available

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid exposure to extreme temperatures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May release irritating and toxic gases due to thermal decomposition. Products of combustion include oxides of carbon and nitrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY/IRRITATION STUDIES:** (Data from a similar product)

Acute Oral LD<sub>50</sub> (Rat): > 15,000 mg/kg

Acute Dermal LD<sub>50</sub> (Rabbit): > 10,000 mg/kg

Acute Inhalation LC<sub>50</sub> (Rat): > 1.02 mg/L/4-hr (in the liquid aerosol form)

Eye Irritation: Minimally irritating

Skin Irritation: Slightly irritating

Dermal Sensitization: Negative

**ROUTES OF EXPOSURE:** Inhalation, Ingestion, Eye and Skin contact.

**POTENTIAL HEALTH EFFECTS:**

**SKIN CONTACT:** May be harmful if absorbed through skin. May cause a transient, localized parathesia, characterized by tingling, burning or numbness sensation in some individuals.

**EYE CONTACT:** Non-irritating.

**INHALATION:** Harmful if inhaled.

**OTHER TOXICOLOGICAL INFORMATION:** (Based on Deltamethrin Technical)

**CHRONIC TOXICITY/CARCINOGENICITY:** General neurological symptoms were exhibited in studies with rats, mice and dogs. These symptoms included unsteadiness, abnormal gait, tremors and liquid feces. No histopathologic findings were observed except some signs of slight hepatotoxicity in mice. No Observable Effect Levels hepatotoxicity in mice. No Observable Effect Levels (NOEL's) were 1 mg/kg/day in the 2 year rat and dog studies. The NOEL for the 2-year mouse study was approximately 12 mg/kg/day. Deltamethrin was not carcinogenic in rats or mice.

**NEUROTOXICITY:** Deltamethrin does not inhibit acetylcholinesterase. Neurobehavioral effects including unsteadiness, excessive salivation, vomiting, liquid feces, uncoordinated movement,

# SAFETY DATA SHEET

## D-Fense SC

tremors, spasmodic convulsions which are typically related to Central Nervous System (CNS) stimulation, were observed in some studies, The NOEL for these studies was 1 mg/kg/day or higher.

**REPRODUCTIVE/DEVELOPMENTAL:** No developmental effects were observed in studies with rats or rabbits in the absence of maternal toxicity. The developmental NOEL for the rat study was 3.3 mg/kg/day while the developmental NOEL for rabbits was 25 mg/kg/day. Reproduction studies with rats produced clinical signs, reduced body weight gain and mortality in parents and offspring at very high dosages. The NOEL for the parents and offspring was 80 ppm or approximately 4 to 12 mg/kg/day for adults and 18 to 44 mg/kg/day for offspring.

**MUTAGENICITY:** No evidence of genotoxicity was observed in a battery of in vitro and in vivo studies.

**CARCINOGENICITY:** Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

Propylene Glycol - In rare cases, repeated or prolonged exposure to Propylene Glycol may cause central nervous system effects.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This pesticide is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 2 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

The pesticide is highly toxic to bees exposed to direct treatment. Do not apply or allow it to drift to crops or weeds on which bees are actively foraging.

**ECOTOXICITY INFORMATION:** (Based on Deltamethrin Technical)

#### AVIAN TOXICITY:

Bobwhite Quail (LD<sub>50</sub>): > 2250 mg/kg

Bobwhite Quail (dietary LC<sub>50</sub>): > 5620 ppm

Mallard Duck (dietary LC<sub>50</sub>): > 8039 ppm

#### AQUATIC TOXICITY:

Rainbow Trout (96-Hour LC<sub>50</sub>): 0.26 ppb

Bluegill Sunfish (96-Hour LC<sub>50</sub>): 0.17 ppb

Sheepshead Minnow (96-Hour LC<sub>50</sub>): 0.48ppb

Chronic Toxicity-Fathead Minnow: MATC = 24 ppt

Chronic Daphnia Toxicity: MATC =6.0 ppt

**ENVIRONMENTAL FATE:** The major routes of dissipation are soil binding and soil microbial degradation. Although soil binding is strong, it is not immediate. It appears that spray drift is the only significant route of exposure to aquatic organism. However, deltamethrin's strong binding capacity to slime, plants, sediment, etc., might rapidly prevent the availability of deltamethrin for bioconcentration in aquatic systems. Additionally, its insolubility in water will be a factor in limiting its bioconcentration as well. Deltamethrin hydrolyzes under alkaline conditions. Leaching studies indicate that Deltamethrin is immobile.

Water Solubility: <0.20 mg/l @ 25°C

Hydrolytic Half-Life: 2.28-2.70 days @ pH 9.0

Photolytic Half-Life: 64-86 days (water); 9 days (soil)

Soil Half-Life: 14-40 days (cropped plots); 37-69 days (bare ground) in field dissipation studies

Bioconcentration Factor (BCF in bluegill sunfish): 189-3630x

# SAFETY DATA SHEET

## D-Fense SC

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

### 14. TRANSPORT INFORMATION

#### DOT CLASSIFICATION:

Not regulated

#### INTERNATIONAL TRANSPORTATION:

**IMO (vessel):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (Deltamethrin), 9, PG III, Marine Pollutant

**IATA (air):** UN3082, Environmentally Hazardous substances, liquid, n.o.s. (Deltamethrin), 9, PG III

### 15. REGULATORY INFORMATION

#### FIFRA INFORMATION:

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

**CAUTION** Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

#### SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Chronic health hazard (delayed)

Section 313: Not applicable

**CERCLA RQ:** Not applicable

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

**CA PROPOSITION 65:** Not applicable

**STATE RIGHT-TO-KNOW:** Propylene Glycol (CAS No. 57-55-6): MN

# **SAFETY DATA SHEET**

## **D-Fense SC**

### **16. OTHER INFORMATION**

<b>HAZARD RATINGS</b>	<b>NFPA</b>	<b>HMIS</b>	
<b>HEALTH:</b>	2	1	0 MINIMAL
<b>FLAMMABILITY:</b>	1	0	1 SLIGHT
<b>REACTIVITY:</b>	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

**SDS DATE:** 6-4-2015. Supersedes version dated 4-1-2011. Changes made to all sections.

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

**EcoVia™ 3-in-1 Emulsifiable Concentrate - RTU****Safety Data Sheet**

Release Date: 5/10/2016

Print Date: 5/10/2016

Version 1.0

---

**1. PRODUCT IDENTIFICATION****1.1. Product Identifiers**

Product name : **EcoVia™ 3-in-1 Emulsifiable Concentrate– Diluted with water at 8 fl oz/gal**

**Other Means of Identification**

Product synonyms : none

**1.2. Recommended Uses/Restrictions to Use**

Uses : FIFRA 25(b) exempt “minimum risk” pesticide product for the control of various pest species per label – ready to use dilution(s)

Restrictions : See product label for details

**1.3. Supplier Details**

Company : Rockwell Labs Ltd  
1257 Bedford Avenue  
North Kansas City, MO 64116-4308  
USA

Telephone : 1 816-283-3167

**1.4. Emergency Contact**

Outside normal business hours

Emergency Phone # : 1 800-424-9300 (USA & Canada)  
1 703-527-3887 (Outside USA & Canada)

---

**2. HAZARDS IDENTIFICATION****2.1. Classification of Substance or Mixture**

none

**2.2. GHS label elements, including precautionary statements**

Pictogram(s) none

Signal word none

Hazard statement(s)

H226 none

Precautionary statement(s)

P210 none

**2.3. Other hazards which do not result in classification**

none

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable

**3.2. Mixtures**

Hazardous component(s) or components of note:

Chemical Identity	Contains (% w/w)	CAS-No.	Hazard Classification
none	----	----	----

---

**4. FIRST AID MEASURES****4.1. Description of first aid measures****General advice**

Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

**If inhaled**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

**In case of skin contact**

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

**In case of eye contact**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed**

Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

No data available

**4.3. Indication of any immediate medical attention and special treatment needed, if necessary**

None known

---

**5. FIRE FIGHTING MEASURES****5.1. Extinguishing media**

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**EcoVia™ 3-in-1 Emulsifiable Concentrate - RTU**
**Safety Data Sheet**

Release Date: 5/10/2016

Print Date: 5/10/2016

Version 1.0

**5.2. Specific hazards arising from the chemical**

Oxides of carbon, nitrogen, and sulfur.

**5.3. Special protective equipment and precautions for fire fighters**

Wear self contained breathing apparatus for firefighting if deemed necessary.

Additional information: none.

**5.4. Further information**

No data available

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

Avoid contact with spilled product and contaminated surfaces. Evacuate personnel to safe areas during emergencies. For safe handling instructions see section 7. For proper PPE see section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**6.3. Methods and materials for containment and cleaning up**

Wipe up any spilled material and dispose of according to instructions in section 13. Wash contaminated surfaces with soap and water.

---

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

Handle in accordance with good industrial hygiene practices. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. For additional precautions see section 2.2

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

Store upright in original container. Do not store where children or animals may gain access.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1. Control parameters**

Components with workplace parameters

Component	CAS-No.	Value	Control parameters	Basis
Isopropyl alcohol	67-63-0	TWA	400 ppm	NIOSH REL
		ST	500 ppm	
		TWA	400 ppm	OSHA PEL
Oils, peppermint	8006-90-4	TWA	10 mg/m <sup>3</sup>	NIOSH REL
Butyl stearate	123-95-5	TWA	10 mg/m <sup>3</sup>	ACGIH TLV

**8.2. Appropriate engineering controls**

Ensure relevant engineering controls are employed to prevent exceeding threshold values for the listed control parameters in section 8.1.

**8.3. Individual protection measures, such as personal protective equipment**

In normal use and handling conditions refer to the product label for required PPE. In all other cases the following recommendations would apply.

**Eye/face protection**

Safety glasses or other similar eye protection conforming to ANSI Z87.1 standards recommended when handling product.

**Skin protection**

Chemical resistant nitrile rubber or similarly compatible gloves recommended when handling product. Dispose of contaminated gloves after use in accordance with applicable local and state regulations. Wash exposed skin with soap and water immediately. Wash all contaminated clothing prior to reuse.

**Respiratory protection**

Not required under normal use conditions. Chemical cartridge respirator with organic vapor cartridge recommended when risk assessment shows need for air-purifying respirators.

**Thermal hazards**

None known

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**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance;	White liquid
Odor;	Thyme
Odor threshold;	No data available
pH;	No data available
Melting point/freezing point;	No data available
Initial boiling point and boiling range;	No data available
Flash point;	> 200 °F (93 °C)
Evaporation rate;	No data available
Flammability (solid, gas);	No data available
Upper/lower flammability or explosive limits;	No data available
Vapor pressure;	No data available
Vapor density;	No data available

**EcoVia™ 3-in-1 Emulsifiable Concentrate - RTU****Safety Data Sheet**

Release Date: 5/10/2016

Print Date: 5/10/2016

Version 1.0

Relative density;	0.99 g/ml
Solubility;	Soluble in water
Partition coefficient: n-octanol/water;	No data available
Auto-ignition temperature;	No data available
Decomposition temperature;	No data available
Viscosity;	Similar to that of water

**9.2. Additional Information**

No data available

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**10. STABILITY AND REACTIVITY****10.1. Reactivity**

No dangerous reactions known.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents. Strong reducing agents.

**10.5. Hazardous decomposition products**

Other decomposition products – no data available

In the event of a fire: see Section 5

---

**11. TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute Toxicity Estimate (ATE)**

LD50 Oral – Rat – &gt; 5000 mg/kg

LD50 Dermal – Rat – &gt; 5000 mg/kg

LD50 Inhalation – Rat – no data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

**EcoVia™ 3-in-1 Emulsifiable Concentrate - RTU****Safety Data Sheet**

Release Date: 5/10/2016

Print Date: 5/10/2016

Version 1.0

No data available

**Carcinogenicity**

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2. Other information**

No data available

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**12. ECOLOGICAL INFORMATION****12.1. Toxicity**

Toxicity to fish LC50 – Danio rerio (zebrafish) – >200 mg/l (96 hr)

Toxicity to daphnia EC50 – Daphnia magna (Water flea) – >100 mg/l (48 hr)  
and other aquatic  
invertebrates

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS****13.1. Disposal Methods.**

**EcoVia™ 3-in-1 Emulsifiable Concentrate - RTU****Safety Data Sheet**

Release Date: 5/10/2016

Print Date: 5/10/2016

Version 1.0

The best disposal method is to use the entire quantity per label directions. If it is necessary to dispose of unused material then follow the label instructions and relevant local, state and federal waste disposal guidelines.

Product Disposal:

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

Packaging Disposal:

If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP which is managed as a public-private partnership.

See section 8 for proper PPE and precautionary handling measures.

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**14. TRANSPORT INFORMATION****DOT**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

This chemical is a FIFRA 25(b) Exempt pesticide product that is not registered by the Environmental Protection Agency but is subject to certain labeling requirements under various state pesticide laws. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

KEEP OUT OF THE REACH OF CHILDREN

CAUTION

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl alcohol – CAS-No. 67-63-0

**SARA 311/312 Hazards**

None

**California Proposition 65 Components**

This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or reproductive harm.

**TSCA**

All components of this product are listed, exempted, or excluded from listing on the U.S. Toxic Substances Control Act chemical substance inventory.

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**16. OTHER INFORMATION****Acronyms and abbreviations used**

LD50	Lethal Dose, 50%
OECD	Organization for Economic Cooperation and Development
IARC	International Agency for Research on Cancer
ACGIH	American Conference of Industrial Hygienists
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
SARA	Superfund Amendments and Reauthorization Act
TSCA	Toxic Substances Control Act
CAS-No.	Chemical Abstract Services - Number
PPE	Personal Protective Equipment
HMIS	Hazardous Materials Identification System
NFPA	National Fire Protection Association
PPM	Parts Per Million
ANSI	American National Standards Institute
TWA	Time Weighted Average
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
ST	Short Term

**Hazard Rating System Crossover**HMIS Rating

Health Hazard:	1
Flammability:	0
Reactivity:	0

NFPA Rating

Health Hazard:	1
Flammability:	0
Reactivity:	0

**Preparation information**

Prepared by:	Rockwell Labs Ltd
Version:	1.0
Revision Date:	May 10, 2016
Reason for revision:	none



**EcoVia™ 3-in-1 Emulsifiable Concentrate - RTU**

**Safety Data Sheet**

Release Date: 5/10/2016

Print Date: 5/10/2016

Version 1.0

Notice to Reader: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Rockwell Labs Ltd provides no warranties, express or implied, and assumes no responsibility for the accuracy and completeness of the data contained herein. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are trademarks of Rockwell Labs Ltd.



**essentria<sup>TM</sup>**  
**IC<sup>3</sup>**  
**INSECTICIDE CONCENTRATE**

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Essentria<sup>TM</sup> IC<sup>3</sup>

### COMPANY IDENTIFICATION:

Envincio LLC  
501 Cascade Pointe Lane, Suite 103  
Cary, NC 27513  
www.envincio.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENTS	CAS NO.	% COMPOSITION
Rosemary Oil		10.0
Peppermint Oil		2.0
Geraniol		5.0

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

**EXPOSURE LIMITS:** None established

## 3. PHYSICAL DATA

**APPEARANCE:** Clear Very Pale Yellow Liquid

**ODOR:** Faint Minty Scent

**WEIGHT PER VOLUME:** 0.995 g/ml

## 4. HAZARD IDENTIFICATION

Prolonged exposure to this product may cause dry skin, eye irritation, and drying of the nasal passages. Burning may produce toxic by-products.

State of California requires any product containing 8.5% or more of Rosemary Oil must at a minimum bear the signal word "Caution", the phrase "Keep Out of Reach of Children", appropriate precautionary language, and a requirement for protective eyewear and gloves.

## 5. FIRST AID

**IF SWALLOWED:** Rinse mouth out with water. Do not induce vomiting. Seek medical attention if feeling sick or nauseous.

**IF INHALED:** Move exposed person(s) to fresh air.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Wash exposed area with soap and water.

**IF IN EYES:** Flush with water for at least 15 minutes. Seek medical attention if irritation persists.

## 6. FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** 145°F (TCC)

**FLAMMABLE LIMITS (LFL-UFL):** Not tested

**FIRE AND EXPLOSION HAZARDS:** This product is combustible.

**MEANS OF EXTINCTION:** Carbon Dioxide, Dry Chemical or Foam

**FIRE FIGHTING INSTRUCTIONS:** None

### NFPA RATING:

Health	1
Flammability	2
Reactivity	0
Other	None

## 7. REACTIVITY DATA

**CHEMICAL STABILITY:** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes.

**POLYMERIZATION:** Will not occur

## 8. SPILL OR LEAK PROCEDURES

If spilled, absorb liquid with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

## 9. PERSONAL PROTECTION INFORMATION

Local exhaust ventilation is not required. If large quantities are handled indoors, ensure adequate mechanical ventilation.

**RESPIRATORY PROTECTION:** Not required with adequate ventilation. If ventilation is poor and large quantities are being handled, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).

**EYE PROTECTION:** Safety glasses or chemical goggles.

**GLOVES:** Wear Nitrile, Neoprene, or natural rubber gloves.



**essentria<sup>™</sup>**  
**IC<sup>3</sup>**  
**INSECTICIDE CONCENTRATE**

# MATERIAL SAFETY DATA SHEET

**OTHER PROTECTIVE EQUIPMENT:** Long sleeve shirts, long pants, shoes, and socks.

## 10. HANDLING AND STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

## 11. TOXICOLOGICAL INFORMATION

**ORAL** (rat): Not determined.

**ACUTE EFFECTS FROM OVEREXPOSURE:** Prolonged contact with the skin may cause irritation, and contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data is available.

**CARCINOGENICITY:**

NTP: No  
OSHA: No

## 12. ECOLOGICAL INFORMATION

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

## 13. DISPOSAL CONSIDERATIONS

Do not reuse empty container. Triple rinse empty container then puncture container and recycle if possible. If recycling is not possible, triple rinse empty container then puncture container and dispose of container in a sanitary landfill, or incinerator, or if allowed by state and local regulations, by burning. If burned, stay out of smoke.

## 14. SHIPPING INFORMATION

**GROUND:** Not DOT regulated in available quantities (ref: CFR 49 § 173.150 (f))

**AIR:** Aviation Regulated Liquid, N.O.S. (contains Rosemary Oil), Class 9, UN3334, PG III

## 15. REGULATORY INFORMATION

**SARA Title III:** This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.

Envincio represents that this product is a Minimum-Risk pest control product, and qualifies for exemption from EPA registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by Envincio LLC as to the results to be obtained based upon your use of the information, nor does Envincio LLC assume any liability arising out of your use of the information.

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# SAFETY DATA SHEET

Issue Date: 10-Oct-2016

Revision Date: 10-Oct-2016

Version: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** Exponent® Insecticide Synergist  
**EPA Registration Number:** 1021-1511

### Other means of identification

**Part Code:** 2332B

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

**Recommended Use:** Insecticide.

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

**Manufacturer Address:** McLaughlin Gormley King Company  
8810 10th Avenue North  
Minneapolis, MN 55427  
**Telephone Number:** (800) 645-6466, or (763) 544-0341  
**e-Mail Address:** mgk-sds@mgk.com

**FAX #:**  
(763) 544-6437

### Emergency telephone numbers:

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300  
**International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

**Comments:** MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.  
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to  
(888) 740-8712, or (952) 852-9509.

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1
Flammable liquids	Category 4

### Label elements

#### **Emergency Overview**

### **WARNING**

**Hazard statements**

- H332 - Harmful if inhaled
- H320 - Causes eye irritation
- H317 - May cause an allergic skin reaction
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H227 - Combustible liquid

**Appearance:** Clear , to light amber**Physical state:** Liquid**Odor** Slight - Solvent**Precautionary Statements - Prevention:**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P271 - Use only outdoors or in a well-ventilated area  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response:**

- P321 - Specific treatment (see Section 4/ First Aid).  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/attention  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P363 - Wash contaminated clothing before reuse  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
 P370 + P378 - In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage:**

- P403 + P235 - Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal:**

- P501 - Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):**

Not applicable

<b>3. COMPOSITION/ INFORMATION ON INGREDIENTS</b>
---

Chemical Name	CAS No	Weight-%
Piperonyl Butoxide (PBO)	51-03-6	91.30

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

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

#### 4. FIRST AID MEASURES

**Aspiration pneumonia hazard:** • No information available

**Description of first aid measures:**

<b>Eye contact:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin Contact:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Ingestion:</b>	If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Self-protection of the First Responder:</b>	Use personal protective equipment as required.
<b>Note to physicians:</b>	For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Alcohol resistant foam.

**Unsuitable extinguishing media:**

Caution: Use of water spray when fighting fire may be inefficient.

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

**Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**Explosion data**

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:**

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

<b>NFPA</b>	<b>Health hazards</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Physical and Chemical Properties</b>
				-
<b>HMIS</b>	<b>Health hazards</b> 2	<b>Flammability</b> 2	<b>Physical hazards</b> 0	<b>Personal protection</b>
				X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Personal precautions:** Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.
- Environmental precautions:** Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

- Methods for containment:** Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up:** Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Advice on safe handling:** Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). For more information, see product label.

### Conditions for safe storage, including any incompatibilities

- Storage Conditions:** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers. For more information, see product label.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control parameters

- Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

- Engineering Controls:** Safety showers  
Eyewash stations  
Ventilation systems

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

- Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Wear protective gloves and protective clothing.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

**Physical state:** Liquid  
**Appearance:** Clear , to light amber  
**Odor** Slight - Solvent  
**Odor threshold:** No information available  
**Color (Gardner Scale):** 1

<u>Property:</u>	<u>Values:</u>	<u>Comment: • Method</u>
<b>pH:</b>	5.1	@ 5% in H <sub>2</sub> O. .
<b>Melting point / freezing point:</b>	No information available	
<b>Boiling point / boiling range:</b>	No information available	
<b>Flash point:</b>	87.8 °C / 190.0 °F	Tag Closed Cup;

**Evaporation rate:** No information available  
**Flammability (solid, gas):** No information available  
**Upper flammability limit (UEL):** No information available  
**Lower flammability limit (LEL):** No information available  
**Vapor pressure:** No information available  
**Vapor density:** No information available  
**Specific Gravity:** No information available  
**Water solubility:** No information available  
**Partition coefficient; n-Octanol/ Water:** No information available  
**Autoignition temperature:** No information available  
**Decomposition temperature:** No information available  
**Kinematic viscosity:** No information available  
**Dynamic viscosity:** 39.2 cPs @ 23.2°C.  
**Refractive Index:** 1.4961

@ 25°C (77°F)

### Other Information:

**Density:** 1.052 g/cm<sup>3</sup> @ 20.0 °C  
**VOC Content (%):** 2

### Miscibility/ Solubility:

**Water:** Miscible  
**Alcohol** Miscible  
**Aromatic solvents:** Miscible  
**Petroleum distillates:** Miscible

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials:**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

**Numerical measures of toxicity - Product Information**

<b>Oral LD<sub>50</sub></b>	>3,129 mg/kg (rat)
<b>Dermal LD<sub>50</sub></b>	>5,000 mg/kg (rabbit)
<b>Inhalation LC<sub>50</sub></b>	>2.04 mg/L, (rat; 4 hours)
<b>Eye contact:</b>	Moderately irritating to the eyes. Irritation clearing in 72 hours. (rabbit).
<b>Skin Contact:</b>	Slight irritation at 48 hours. (rabbit).
<b>Skin Irritation Index:</b>	0.5

**Sensitization:** Positive. (guinea pig).

**Piperonyl Butoxide:** Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

**Carcinogenicity/ Oncogenicity:**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

<b>Reproductive toxicity:</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>Teratogenicity:</b>	No information available.
<b>STOT - single exposure:</b>	No information available.
<b>STOT - repeated exposure:</b>	No information available.
<b>Chronic toxicity:</b>	Avoid repeated exposure.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects:** No information available

**Environmental hazards (EPA):**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

**Contaminated packaging:** For more information, see product label.

**14. TRANSPORT INFORMATION****DOT (Department of Transportation)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Other Shipping Information:** This material is **not** regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (*i.e.*, less-than 119 Gallons / 450 Liters).

When shipping in Bulk-quantities (*i.e.*, more than 119 Gallons / 450 Liters), please contact MGK® for the proper shipping description.

**Air (IATA/ ICAO)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Vessel (IMO/ IMDG)**

**UN/ID Number:** UN3082  
**Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class:** 9  
**Packing Group:** III

**15. REGULATORY INFORMATION****US Federal Regulations**

**SARA 313**

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

Chemical Name	SARA 313 - Threshold Values %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

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

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

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

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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

This product does not contain any Proposition 65 chemicals

**U.S. EPA Label Information:**

**EPA Registration Number:** 1021-1511

**Difference between SDS and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION**

**Precautionary Statements:**

- Harmful if swallowed.
- Harmful if absorbed through the skin.
- Causes moderate eye irritation.

**International:**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Does not comply

KECL	Does not comply
PICCS	Does not comply
AICS	Complies

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.**

<b>Issue Date:</b>	<b>Revision Date:</b>	<b>Revision Note:</b>
10-Oct-2016	10-Oct-2016	- New SDS. - GHS - Classification.

<b>SDS Prepared By:</b>	Troy Azzivitto, MGK® Chemistry Department.
e-Mail Address:	mgk-sds@mgk.com

**Disclaimer:**

The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

**End of Safety Data Sheet.**

# SAFETY DATA SHEET

## Section 1: Identification

**Product identifier:** FirstStrike® Soft Bait  
**Other identifier(s):** EPA Registration Number 7173-258  
**Uses or restrictions:** Rodenticide with difethialone

**Manufacturer:** Liphatech, Inc.  
3600 W. Elm Street, Milwaukee, WI 53209

**Emergency phone:** 800-351-1476 Monday - Friday 8:00 am - 4:30 pm  
(US Central time zone)

**After hours:** Call CHEMTREC at 1-800-424-9300

## Section 2: Hazard Identification

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



## Section 3: Composition / Information on Ingredients

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

## Section 4: First Aid Measures

**Emergency overview:** This material may reduce the clotting ability of the blood and cause bleeding. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding. Have the product label with you when obtaining treatment advice.

**If swallowed:** Call a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

**If inhaled:** Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration and call poison control or doctor.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor.

**Note to Physician or Veterinarian:** Contains anticoagulant ingredient. For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K<sub>1</sub> intramuscularly or orally. In severe cases, blood transfusions may be needed.

## Section 5: Fire-fighting Measures

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

## Section 6: Accidental Release Measures

**Precautions, PPE and Procedures:** Wearing PPE as specified in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.

**Methods and materials:** Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

## Section 7: Handling and Storage

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

## Section 8: Exposure Controls / Personal Protection

**Established exposure limits:** Not applicable  
**Appropriate engineering controls:** Special ventilation is not required for the normal handling and use of this product when following label instructions.

**Individual protection measures:** Wear long pants, shoes, socks and waterproof gloves when handling this product. Follow manufacturer's instructions for cleaning/maintaining PPE, or else wash with detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. Wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

## Section 9: Physical and Chemical Properties

**Appearance:** Soft paste, blue color, raw grain odor. Odor threshold not determined.

**Water solubility:** Negligible      **pH:** Not applicable  
**Relative density:** 1.11 g/cc      **Viscosity:** Not applicable

**% Volatile (volume):** Not applicable      **Evaporation rate:** Not applicable  
**Vapor density:** Not applicable      **Vapor pressure:** Not applicable  
**Boiling point:** Not determined      **Freezing point:** Not applicable  
**Flash point (ASTM D92):** >150 °C      **Autoignition temp.:** Not determined  
**Flammability:** Not a flammable solid      **Decomposition temp.:** Not determined  
**Explosive limits - Lower limit:** Not applicable; **Upper limit:** Not applicable  
**Partition coefficient (n-octanol/water):** Not applicable

## Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, skin absorption.  
**Symptoms of toxicity:** Lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.

**Eye effects/eye irritation:** Mild, transient irritant  
**Acute oral effects:** LD<sub>50</sub> (oral-rat): >5000 mg/kg  
**Acute inhalation effects:** LC<sub>50</sub> (rat, 4 hour): 200 mg/L (extrapolated)  
**Acute dermal effects:** LD<sub>50</sub> (dermal-rabbit): >2000 mg/kg  
**Skin irritation:** Non-irritating  
**Skin sensitization:** Not a skin sensitizer  
**Carcinogenicity:** No ingredient listed by NTP, IARC or OSHA

## Section 12: Ecological Information

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

## Section 13: Disposal Considerations

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

## Section 14: 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, Packing Group and UN ID No.:** Not applicable

## Section 15: Regulatory Information

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

## Section 16: Other Information

**Prepared by:** T. Schmit      **Date:** 1 July 2016  
This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation.

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **FUSILADE® II TURF AND ORNAMENTAL Herbicide**

Product No.: A12460A

Use: Herbicide

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

Manufacturer Phone: 1-800-334-9481

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

### 2. HAZARDS IDENTIFICATION

Classifications: Skin Corrosion/Irritation: Category 2  
Skin Sensitizer: Category 1B  
Reproductive Toxicity: Category 2  
Specific Target Organ Toxicity: Repeated Category 2  
Aspiration Hazard: Category 1  
Carcinogenicity: Category 1B  
Inhalation: Category 2

Signal Word (OSHA): Danger

Hazard Statements: May be fatal if swallowed and enters airways  
Causes skin irritation  
May cause an allergic skin reaction  
Fatal if inhaled  
May cause cancer  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe mist, vapors, spray.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015  
Replaces: 10/17/2014

Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection.  
In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If swallowed: Immediately call a poison center, doctor or Syngenta.  
If on skin: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice.  
If skin irritation or rash occurs: Get medical advice.  
If exposed or concerned: Get medical advice/attention.  
Immediately call a poison center, doctor or Syngenta.  
Get medical advice if you feel unwell.  
Specific treatment is urgent (see Section 4 First Aid Measures).  
See Section 4 First Aid Measures.  
Do NOT induce vomiting.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Naphthalene	Naphthalene	91-20-3	Trade Secret
Petroleum Solvent	Petroleum Solvent	64742-94-5	Trade Secret
Petroleum distillates, light paraffinic	Petroleum distillates, light paraffinic	64741-89-5	Trade Secret
Other ingredients	Other ingredients	Trade Secret	75.5%
Butyl(RS)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate	Fluazifop-P-Butyl	79241-46-6	24.5%

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

### 4. FIRST AID MEASURES

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

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

### Most important symptoms/effects:

Skin irritation

Allergic skin reaction

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

There is no specific antidote if this product is ingested.

Treat symptomatically.

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

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

## 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

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

Specific Hazards:

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

Special protective equipment and precautions for firefighters:

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

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. 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

Precautions for safe handling:

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

Conditions for safe storage, including any incompatibilities:

Store locked up.

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

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

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Naphthalene	10 ppm TWA	10 ppm TWA (skin)	10 ppm TWA	NIOSH
Petroleum Solvent	Not Established	Not Established	100 mg/m <sup>3</sup> (15-17 ppm) TWA	Manufacturer
Petroleum distillates, light paraffinic	Not Established	Not Established	Not Established	Not Applicable
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Fluazifop-P-Butyl	Not Established	Not Established	0.5 mg/m <sup>3</sup> TWA	Syngenta

Appropriate engineering controls:

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

Individual protection measures:**Ingestion:**

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

**Eye Contact:**

Where eye contact is likely, use chemical splash goggles.

**Skin Contact:**

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or Viton), coveralls, socks and chemical-resistant footwear.

**Inhalation:**

A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Dark brown liquid, free of sediment

Odor: Aromatic

Odor Threshold: Not Available

pH: 6.2 (1% w/w dilution in deionized water)

Melting point/freezing point: Not Applicable

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): > 212°F (TCC)

Flammable Limits (% in Air): Not Available

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

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Flammability: Not Applicable

Vapor Pressure: Fluazifop-P-Butyl 4.5 x 10<sup>-7</sup> mmHg @ 68°F (20°C)

Vapor Density: Not Available

Relative Density: 0.9807 g/ml @ 68°F (20°C)

Solubility (ies): Fluazifop-P-Butyl Almost insoluble in water (1 mg/l @ pH 5 - 6.5)

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: Not Available

Decomposition Temperature: Not Available

Viscosity: Not Available

Other: None

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**10. STABILITY AND REACTIVITY**

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: None known.

Incompatible materials: None known.

Hazardous Decomposition Products: None known.

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**11. TOXICOLOGICAL INFORMATION**Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Skin irritation

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Skin irritation, Allergic skin reaction

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

Ingestion:	Oral (LD50 Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rabbit) :	> 2000 mg/kg body weight
Inhalation:	Inhalation (LC50 Animal Not Available) :	0.54 mg/l air - 4 hours
Eye Contact:	Slightly Irritating (Rabbit)	
Skin Contact:	Moderately Irritating (Rabbit)	
Skin Sensitization:	See "Other Toxicity Information", Sec. 11	

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

Reproductive/Developmental Effects

Fluazifop-P-Butyl : Embryo/foetotoxic effects have been reported in rats. Did not show teratogenic effects in animal experiments.

Chronic/Subchronic Toxicity Studies

Fluazifop-P-Butyl : Effects on red cells, bone marrow, liver and spleen observed in long-term high dose feeding tests in dogs. No adverse health effects are expected in humans at airborne levels below the occupational exposure limit.

Carcinogenicity

Fluazifop-P-Butyl : Did not show mutagenic effects in animal experiments. Did not show carcinogenic effects in animal experiments.

Chemical Name	NTP/IARC/OSHA Carcinogen
Naphthalene	See "Toxicity", Sec. 11
Petroleum Solvent	No
Petroleum distillates, light paraffinic	No
Other ingredients	No
Butyl(RS)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate	No

Other Toxicity Information

Repeated and/or prolonged contact may cause skin sensitization.

Toxicity of Other Components

## Naphthalene

Exposure to naphthalene can cause cataracts, liver damage, kidney failure, respiratory failure, hematuria, anemia, damage to red blood cells, leukocytosis, or coma.

## Carcinogen Status:

NTP: Anticipated Carcinogen

IARC: Group 2B Possible Human Carcinogen

## Other ingredients

Not Applicable

## Petroleum Solvent

May cause irritation to the eyes, skin and respiratory system. Excessive inhalation causes headache, dizziness, nausea and loss of motor skills.

## Petroleum distillates, light paraffinic

May cause respiratory tract irritation. Harmful if swallowed. Pulmonary aspiration hazard.

Target OrgansActive Ingredients

Fluazifop-P-Butyl : Blood, bone marrow, liver, spleen

Inert Ingredients

Naphthalene: Eye, liver, kidney, respiratory tract, blood, CNS

Other ingredients: Not Applicable

Petroleum Solvent: Eye, skin, respiratory system, central nervous system

Petroleum distillates, light paraffinic: Respiratory tract

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

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### 12. ECOLOGICAL INFORMATION

#### Eco-Acute Toxicity

##### Fluazifop-P-Butyl :

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.02 ppm

Green Algae 4-day EC50 > 1.8 ppm

Bird (Mallard Duck) 14-day LD50 > 3528 mg/kg

#### Environmental Fate

##### Fluazifop-P-Butyl :

The information presented here is for the active ingredient, fluazifop-p-butyl.  
Not persistent in soil or water.

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### 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

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### 14. TRANSPORT INFORMATION

#### DOT Classification

Ground Transport - NAFTA

< 300 gallons: Not regulated

> 300 gallons:

Proper Shipping Name: Other Regulated Substances, Liquid, N.O.S. (RQ - Naphthalene)

Hazard Class: Class 9

Identification Number: NA 3082

Packing Group: PG III

#### Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Fluazifop), Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Fluazifop)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

## FUSILADE® II TURF AND ORNAMENTAL Herbicide

Date: 6/9/2015

Replaces: 10/17/2014

## 15. REGULATORY INFORMATION

## Pesticide Registration:

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

Caution: Harmful if absorbed through skin or inhaled. Causes eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

## EPA Registration Number(s):

100-1084

## EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard  
Chronic Health Hazard

Section 313 Toxic Chemicals: Naphthalene Trade Secret (CAS No. 91-20-3)

## California Proposition 65:

This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

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

Report product spills > 305 gal. (based on naphthalene [RQ = 100 lbs.] content in the formulation)

## 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

Syngenta Hazard Category: C,S

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

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 11/25/1998

Revision Date: 6/9/2015

Replaces: 10/17/2014

Section(s) Revised: 2, 4, 11

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.



## SAFETY DATA SHEET (SDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION			
<b>Product Name:</b> Kaput®-D Pocket Gopher Bait <b>EPA Reg. No.</b> 72500-9 <b>Use:</b> Anticoagulant Rodenticide for control of pocket gophers – Ready to Use		<b>Manufacturer:</b> Scimetrix Ltd. Corp. PO Box 1045 Wellington, CO 80549 Ph. 970-482-1330	<b>Emergency Phone No:</b> Medical: 800-858-7378 Transportation: 800-424-9300 (CHEMTREC)
SECTION 2: HAZARDS IDENTIFICATION			
<b>Classification according to Regulation OSHA 1910.1200(d):</b> Not applicable See “Section 15: Regulatory Information” for FIFRA applicable Safety, Health and Environmental Classification			
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
<b>Component</b>	<b>CAS No.</b>	<b>% by Weight</b>	
Diphacinone (2-(diphenylacetyl)-1 <i>H</i> -indene-1,3(2 <i>H</i> )-dione)	82-66-6	0.005%	
Other inert ingredients are proprietary and non-hazardous		99.995%	
SECTION 4: FIRST AID MEASURES			
<b>Symptoms:</b> Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding. Have product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Poison Information Center at 1-800-858-7378 for emergency medical treatment information. <b>If swallowed:</b> Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. <b>If on skin or clothing:</b> Take off contaminated clothing. Wash skin with soap and water. <b>If in eyes:</b> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation persists, call a poison control center or doctor immediately for treatment advice. <b>Inhalation:</b> Not applicable <b>Note to Physician or Veterinarian:</b> Contains the anticoagulant Diphacinone. If swallowed, this material may reduce the clotting ability of the blood and cause bleeding. For humans or animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K <sub>1</sub> , intramuscularly or orally.			
SECTION 5: FIRE-FIGHTING MEASURES			
<b>Flash Point:</b> Not applicable. <b>Flammable Limit:</b> Not applicable. <b>Extinguishing Media:</b> For small fires, use water spray, carbon dioxide, dry chemical powder, or foam. <b>Special Fire Fighting Procedures:</b> Firefighters should be equipped with protective clothing and self-contained breathing apparatus. <b>Unusual Fire and Explosion Hazards:</b> None Known.			
SECTION 6: ACCIDENTAL RELEASE MEASURES			
<b>General Information:</b> Wear gloves when handling the bait. <b>Spills/Leaks:</b> Immediately wipe up spill, place in a properly labeled container, and hold for waste disposal or re-use. Wash spill area after material pickup is complete. <b>Reference to other sections:</b> Refer to Section 7, 8 and 13 for further details of personal precautions, protective equipment and disposal considerations.			
SECTION 7: HANDLING AND STORAGE			
<b>Storage Temperature:</b> Room temperature <b>Average Shelf Life:</b> Bait is stable for a minimum of 1 year when stored correctly at room temperature <b>Special Sensitivity:</b> Avoid exposure to excessive heat or cold. <b>Precautions in Handling and Storage:</b> Store in original container in a cool, dry area inaccessible to children, pets, and wildlife. Avoid contamination of lakes, streams and ponds. Wash hands thoroughly with soap and water after handling.			
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
<b>Established Limits:</b>			
Component	OSHA	ACGIH	Other Limits
Diphacinone	Not established	Not established	Not established
<b>Other Protective Measures:</b> Appropriate Engineering Controls: Not required Respiratory Protection: Not required Eye Protection: Not required Skin Protection: Wear long-sleeved shirt, long pants, shoes, socks, and water-proof gloves. Wash hands thoroughly with soap and water after handling the bait.			
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
<b>Appearance/Color:</b>	Loose grain, red color	<b>Vapor Pressure:</b>	Not applicable
<b>Odor:</b>	Grain-like	<b>Vapor Density:</b>	Not applicable
<b>Odor Threshold:</b>	Not determined	<b>Relative Density:</b>	54.38 lbs/cubic foot
<b>pH:</b>	6.87	<b>Solubility:</b>	Not applicable
<b>Melting Point:</b>	Not applicable	<b>Partition coefficient: n-octanol/water:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Auto-Ignition Temperature:</b>	Not applicable
<b>Flash Point:</b>	Not applicable	<b>Decomposition Temperature:</b>	Not determined
<b>Evaporation Point:</b>	Not applicable	<b>Viscosity:</b>	Not applicable
<b>Upper/lower flammability limits:</b>	Not applicable		



## SAFETY DATA SHEET (SDS)

### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not reactive
<b>Chemical Stability:</b>	Stable under normal use and storage conditions
<b>Possibility of hazardous reactions:</b>	Will not occur
<b>Conditions to Avoid:</b>	Avoid extreme temperatures
<b>Incompatible Materials:</b>	Avoid strongly alkaline materials
<b>Hazardous Decomposition Products:</b>	None known

### SECTION 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Ingestion, Dermal  
**Symptoms of Exposure:** Reduced blood clotting ability. Please refer to Section 4.  
**LD50 Oral Ingestion:** >5000 mg/kg (rats)  
**LD50 Dermal (Skin Contact):** >2000 mg/kg (rats)  
**LC50 Inhalation:** N/A  
**Dermal Sensitization:** Not Considered a Sensitizer  
**Skin Irritation:** Non-Irritating  
**Eye Irritation:** Minimally Irritating  
**Carcinogenicity:** Contains no components known to have a carcinogenetic effect

Component	NTP	IARC	OSHA
Diphacinone	Not listed	Not listed	Not listed

### SECTION 12: ECOLOGICAL INFORMATION

This product is toxic to mammals and birds. Dogs, cats and other predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

**Persistence and Degradability:** Diphacinone is biodegradable

**Bioaccumulative Potential:** Not determined

**Mobility in Soil:** Not determined

**Other adverse effects:** None

### SECTION 13. DISPOSAL CONSIDERATIONS

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

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals. Sweep up spillage carefully and dispose of as indicated below.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill or by incineration.

### SECTION 14. TRANSPORTATION INFORMATION

**UN Number:** Not regulated

**UN Proper Shipping Name:** Not regulated

**Transport Hazard Class:** Not hazardous

**Packing Group Number:** Not regulated

**Environmental Hazards for DOT Road/Rail, DOT Maritime, DOT Air:** Not considered hazardous for transportation via road/rail, vessel or air

**Freight Classification:** LTL Class 55, 70 or 92 (depending on packaging type)

### SECTION 15. REGULATORY INFORMATION

This product is subject to EPA FIFRA regulations. This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental and hazard information required on the pesticide is listed below:

**Signal Word:** CAUTION

**Precautionary Statements:**

CAUTION: Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Keep away from children, domestic animals and pets.

**EPA Reg. No.** 72500-9

**TSCA Status:** Exempt from TSCA, subject to FIFRA

### SECTION 16. OTHER INFORMATION

NFPA Hazard Rating		HMIS Hazard Rating		0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme
Health	1	Health	1	
Flammability	0	Flammability	0	
Instability	0	Reactivity	0	

**Disclaimer:** Information provided in this Safety Data Sheet has been obtained from sources believed to be correct to the best of our knowledge but is not all inclusive and shall only be used as a guide. Scimetrics Ltd. Corp. shall not be held liable for any damage resulting from handling or from contact with the above product and provides no warranties either express or implied and assumes no responsibility for the accuracy or completeness of the data contained on this form.

Date created: May 30, 2015

## MATERIAL SAFETY DATA SHEET

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

### 1. Company and Product Identification

**Product:** Matran™ EC  
(DR-E-041)

**Manufacturer:** EcoSMART Technologies, Inc.  
318 Seaboard Lane, Suite 208  
Franklin, TN 37067

**Emergency Telephone Number**  
InfoTrac Chemical Response System  
(800) 535-5053 (24 hours)

**For General Information:**  
(888) 326-7233 (8 am to 4 pm CST)

### 2. Ingredients

<u>Ingredient Name</u>	<u>% by weight</u>	<u>CAS #</u>	<u>Exposure Limits</u>
<b><u>Active Ingredients:</u></b> Clove Oil	50.0%	8000-34-8	None established
<b><u>Inert Ingredients:</u></b> Emulsifiers and solvents	to 100%		None established

### 3. Hazards Identification

**Overview:** Clear amber liquid with a clove scent.

**Potential Health Effects:** Prolonged exposure to this product may cause skin irritation, eye/nasal irritation, dizziness, headache or nausea

State of California requires any exempt pesticide product containing 8.5% or more of Clove Oil must at a minimum bear the signal word "CAUTION", the phrase "Keep Out of Reach of Children", appropriate precautionary language, and a requirement for protective eyewear and gloves.

### 4. First Aid Measures

<b>Eyes:</b>	Flush with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician if irritation persists.
<b>Skin:</b>	Wash exposed area with soap and water for at least 15 minutes. Remove contaminated clothing. Get medical attention if irritation persists.
<b>Inhalation:</b>	Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
<b>Ingestion:</b>	Rinse mouth out with water. Obtain medical attention as soon as possible. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

### 5. Fire Fighting Measures

**Flashpoint:** ..... >190°F (Closed Cup)  
**Flammable Limits:** ..... Not tested

**Extinguishing Media:**.....Use Foam, Carbon Dioxide, or Dry Chemical extinguishers.

**Fire and Explosion Hazards:**.....None

**Special Fire Fighting Procedures:**.....None

**Hazardous Decomposition Products:**.....Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes.

## 6. Spill/Leak Procedures

If spilled, absorb liquid with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

## 7. Handling and Storage

Store in a cool, dry place. Do not allow to freeze. Do not smoke or eat in the product handling area. Keep out of the reach of children and animals.

## 8. Exposure Control/Personal Protection

<b>Ventilation:</b>	Local exhaust ventilation is not required. If large quantities are handled indoors, ensure adequate mechanical ventilation.
<b>Respiratory Protection:</b>	Not required with adequate ventilation. If ventilation is poor and large quantities are being handled, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).
<b>Eye Protection:</b>	Safety glasses or chemical goggles.
<b>Gloves:</b>	Wear chemical resistant gloves such as Nitrile, Neoprene, or natural rubber gloves.
<b>Other Protective equipment:</b>	Not required.

## 9. Physical Properties

**Appearance:** ..... Pale amber liquid  
**Odor:**..... Clove scent

**Specific Gravity (water =1):** .....  $1.06 \pm 0.02$

## 10. Stability and Reactivity

**Chemical Stability:** .....Stable **Hazardous Polymerization:**..... Will not occur

## 11. Toxicological Information

<b>Rat Acute Oral:</b> .....	Not Determined
<b>Rate Dermal:</b> .....	Not Determined
<b>Acute effects from Overexposure:</b> .....	Components of this product have low oral and dermal toxicity. Prolonged contact with the skin may cause

irritation, and contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.

**Chronic Effects from Overexposure:** ..... No data are available.

**Carcinogenicity:** ..... **NTP:** ..... No

**OSHA:** ..... No

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## 12. Environmental Information

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

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## 13. Disposal

Do not reuse empty container. Triple rinse empty container then puncture container and recycle if possible. If recycling is not possible, triple rinse empty container then puncture container and dispose of container in a sanitary landfill, or incinerator, or if allowed by state and local regulations, by burning. If burned, stay out of smoke.

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## 14. Transportation Information

**Ground:** Not DOT regulated.

**Reportable Quantity:** A Reportable Quantity (RQ) has not been established for this material.

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## 15. Regulatory Information

**NFPA Ratings:**      Health - 1      Fire - 2      Reactivity - 0      Special - none

**SARA Title III:**      This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.

State of California requires any exempt pesticide product containing 8.5% or more of Clove Oil must at a minimum bear the signal word "Caution", the phrase "Keep Out of Reach of Children", appropriate precautionary language, and a requirement for protective eyewear and gloves.

# SAFETY DATA SHEET (GHS)



Date Issued : 6/12/2014

MSDS No : NyGuard® IGR

Date-Revised : 6/11/2014

Revision No : 1

## NyGuard® IGR Concentrate

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** NyGuard® IGR Concentrate**PRODUCT DESCRIPTION:** An Emulsifiable Insecticide Concentrate with Insect Growth Regulator.**PRODUCT CODE:** 2482A, EPA REG. NO. : 1021-1603**ACTIVE INGREDIENT(S):** NYLAR® (Pyriproxyfen)**MANUFACTURER**

McLaughlin Gormley King Company

8810 10th Avenue North

Minneapolis, MN 55427

**Emergency Contact:** SafetyCall®**Emergency Phone:** 1(888) 740-8712**Alternate Emergency Phone:** 1(952) 852-9509**Product Stewardship:** 1(800) 645-6466**E-Mail:** mgk-sds@mgk.com**24 HR. EMERGENCY TELEPHONE NUMBERS****FOR TRANSPORTATION:****CHEMTREC® U.S. and CANADA:** 1(800) 424-9300**CHEMTREC® All Other Areas:** 1(703) 527-3887**COMMENTS:** MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to 1-888-740-8712 or 1-952-852-9509 outside of the U.S.A.

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Skin Irritation, Category 2

Eye Irritation, Category 2B

Acute Toxicity (Inhalation), Category 5

Acute Toxicity (Oral), Category 5

**Environmental:**

Acute Hazards to the Aquatic Environment, Category 1

**GHS LABEL**Exclamation  
mark  
(GHS 07)Environment  
(GHS 09)**SIGNAL WORD: WARNING****HAZARD STATEMENTS**

H315: Causes skin irritation.

H320: Causes eye irritation.

H333: May be harmful if inhaled.

H303: May be harmful if swallowed.

# SAFETY DATA SHEET (GHS)



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## NyGuard® IGR Concentrate

H400: Very toxic to aquatic life.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P270: Do not eat, drink, or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

#### Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

**COMMENTS:** This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
NYLAR® (Pyriproxyfen)	10	95737-68-1

**COMMENTS:** Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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

**INGESTION:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** This product is NOT classified as flammable or combustible by OSHA.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide or dry chemical.

# SAFETY DATA SHEET (GHS)



Date Issued : 6/12/2014

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Date-Revised : 6/11/2014

Revision No : 1

## NyGuard® IGR Concentrate

**HAZARDOUS COMBUSTION PRODUCTS:** This product is classified as Non-Combustible, however in the extreme temperatures that fires may produce, some of the constituents of this formula may decompose to give off such gases as carbon dioxide, carbon monoxide, and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent such as sand, or vermiculite. Clean spill area of residues and absorbent.

**LARGE SPILL:** Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

**GENERAL PROCEDURES:** Contaminated absorbent and wash water should be disposed of according to local state/provincial and federal/national regulations.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

**HANDLING:** Take prudent precautions to avoid contact with skin, eyes, and clothing. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal.

READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL.

**STORAGE:** Store in a cool, dry place. Keep container closed. Always store pesticides in the original container. Store away from food and pet-food.

KEEP OUT OF REACH OF CHILDREN.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
NYLAR® (Pyriproxyfen)	TWA	None		None		None	

**ENGINEERING CONTROLS:** Ventilate treatment area thoroughly before re-entry.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes.

**SKIN:** Take prudent precautions to avoid contact with skin and clothing.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

# SAFETY DATA SHEET (GHS)



Date Issued : 6/12/2014

MSDS No : NyGuard® IGR

Date-Revised : 6/11/2014

Revision No : 1

## NyGuard® IGR Concentrate

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet surfactant odor.

**APPEARANCE:** Yellow to amber oily liquid.

**COLOR:** 3.0 on Gardner Scale.

**pH:** 5

**Notes:** @ 10% in water.

**FLASHPOINT AND METHOD:** > 93.3°C (200°F) TAG Closed Cup

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Available

**SOLUBILITY IN WATER:** Partially miscible in water.

**SPECIFIC GRAVITY:** 0.939 (Water = 1) at 20 °C (68 °F)

**VISCOSITY #1:** 28 CPS at 22 °C (71.6 °F) Brookfield

**(VOC):** 0 %

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**DERMAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rabbit.

**ORAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rat.

**INHALATION LC<sub>50</sub>:** > 5.05 mg/L

**Notes:** Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC<sub>50</sub> of this material places it in EPA Toxic Category IV.

**EYE EFFECTS:** Irritation clearing by Day 4.

**SKIN EFFECTS:** Slight irritation at 72 hours. Irritation Index = 2.5

**SENSITIZATION:** Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

**GENERAL COMMENTS:** Some or all of the toxicity data reported above was bridged from a substantially similar formula.

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

# SAFETY DATA SHEET (GHS)



Date Issued : 6/12/2014

MSDS No : NyGuard® IGR

Date-Revised : 6/11/2014

Revision No : 1

## NyGuard® IGR Concentrate

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment, wash water, or rinsate. See the "Directions for Use" on the product label for additional precautions and requirements.

### 13. DISPOSAL CONSIDERATIONS

**EMPTY CONTAINER:** Non-refillable container. DO NOT reuse or refill this container.

Triple-rinse container (or equivalent) promptly after emptying. Then, offer for recycling if available, or puncture and dispose of container in a sanitary landfill.

Triple-rinse as follows for containers less than < 5 gallons (< 18.9 L) or less: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container <sup>1</sup>/<sub>4</sub> full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple-rinse as follows for containers greater than > 5 gallons (> 18.9 L): Empty the remaining contents into application equipment or a mix-tank. Fill the container <sup>1</sup>/<sub>4</sub> full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 261.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**OTHER SHIPPING INFORMATION:** This material is considered to be NON-HAZARDOUS by DOT regulations.

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**NOTE:** Not considered hazardous by IATA/ ICAO regulations for transportation via air.

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not Available

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

**313 REPORTABLE INGREDIENTS:** This product contains no SARA Title III Section 313 chemicals that exceed the reporting

# SAFETY DATA SHEET (GHS)



Date Issued : 6/12/2014

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Revision No : 1

## NyGuard® IGR Concentrate

limits.

### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

### REGULATIONS

#### STATE REGULATIONS:

#### VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains no VOC's (0%).

#### FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

**NOTE:** This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

**CAUTION.** Causes moderate eye irritation. Do not induce vomiting because of aspiration pneumonia hazard. Avoid contact with skin, eyes, and clothing.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use this product in or on electrical equipment due to the possibility of shock hazard.

### 16. OTHER INFORMATION

**REVISION SUMMARY:** This MSDS replaces the 6/11/2014 MSDS. Revised: **Section 9:** APPEARANCE, COLOR, FLASHPOINT AND METHOD, ODOR, pH, SPECIFIC GRAVITY, VISCOSITY #1, (VOC). **Section 11:** ACUTE ( DERMAL LD<sub>50</sub> (rabbit), ORAL LD<sub>50</sub> (rat), ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat) ), EYE EFFECTS, SKIN EFFECTS. **Section 15:** STATE REGULATIONS.

#### HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

**HMIS RATINGS NOTES:** We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

**COMMENTS:** The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

## SAFETY DATA SHEET (GHS)



**Date Issued :** 6/12/2014

**MSDS No :** NyGuard® IGR

**Date-Revised :** 6/11/2014

**Revision No :** 1

### NyGuard® IGR Concentrate

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MSDS Prepared by T. Azzivitto



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Formulator: Gowan Company  
P.O. Box 5569  
Yuma, Arizona 85366-5569  
(800) 883-1844

**Emergency Phone:** (928) 783-3803  
**For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:**

**Inside the U.S.:** (800) 424-9300  
**Outside the U.S.:** (703) 527-3887  
(888) 478-0798

**For MEDICAL Emergency:**

**Product:** Sedgehammer® + Turf Herbicide

**EPA Signal Word:** Caution

**EPA Registration No.:** 81880-24-10163

**Active Ingredient:** Halosulfuron methyl (5.0%)

**CAS No.:** 100784-20-1

**Chemical Name:** Methyl 3-chloro-5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1-methylpyrazole-4-carboxylate (IUPAC)

**Chemical Class:** Sulfonylurea

### 2. Hazards Identification

#### Physical Properties

**Appearance:** Off-white to light tan granule

**Odor:** Practically odorless

#### Medical Conditions Likely to be Aggravated by Exposure

CAUSES MODERATE EYE IRRITATION. Avoid contact with eyes or clothing.

#### Hazardous Decomposition Products

None known

#### Unusual Fire, Explosion, and Reactivity Hazards

None known

### 3. Composition/Information On Ingredients

INGREDIENT NAME	CAS No.	OSHA – PEL	ACGIH – TLV	NTP/IARC/OSHA CARCINOGEN
Halosulfuron methyl (5.0%)	100784-20-1	None	None	No

Only the identities of the active ingredient(s) and any *hazardous* inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

### 4. First Aid Measures

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.</li><li>• Call poison control center or physician for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or physician, or going for treatment. <b>FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE 1-888-478-0798.</b> This product is identified as SEDGEHAMMER, EPA Reg. No. 81880-24-10163	

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## 5. Fire Fighting Measures

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### Flash Point

This material is not combustible as tested by the Tag Closed Cup Test.

### Auto Ignition Temperature

Not determined.

### Appropriate Extinguishing Media

In case of fire, use water (flood with water), dry chemical, CO<sub>2</sub>, or alcohol foam

### Special Fire Fighting Procedures

Firefighters and others that may be exposed to vapors, mists, dusts, or products of combustion should wear full protective clothing and self-contained breathing apparatus. Equipment should be thoroughly cleaned after use.

### Unusual Fire or Explosion Hazards

None known

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## 6. Accidental Release Measures

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### In Case of Spills or Leaks

Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment described in Section 8. Sweep up spill, scoop or vacuum and remove. Flush residual spill area with water. Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water. Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

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## 7. Handling and Storage

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Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**PESTICIDE STORAGE:** Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

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## 8. Exposure Controls/Personal Protection

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### Personal Protective Equipment:

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

**ENGINEERING CONTROLS STATEMENTS:** When handlers use closed systems, or enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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## Physical and Chemical Properties

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**Appearance:** Off-white to light tan granule

**Odor:** Practically odorless

**pH:** 4.86

**Density:** 0.642 g/mL

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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## 10. Stability and Reactivity

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**Stability:** This product should be stable for at least two years under normal conditions of warehouse storage. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.

**Hazardous decomposition products:** None known.

**Hazardous polymerization:** Will not occur.

**Incompatibility with other materials:** None.

**Conditions to avoid:** Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

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## 11. Toxicological Information

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**Oral LD<sub>50</sub> (Rat):** >5,000 mg/kg

**Dermal LD<sub>50</sub> (Rat):** >5,000 mg/kg

**Acute Inhalation (Rat, 4-hr):** >2.05 mg/l

**Eye Irritation (Rabbit):** Moderately irritating

**Dermal Sensitization (Guinea Pig):** Sedgehammer+ is not considered a dermal sensitizer in guinea pigs.

Halosulfuron-methyl, the active herbicidal ingredient in Sedgehammer herbicide, is considered to be practically nontoxic orally or by inhalation and no more than slightly toxic dermally. It is slightly irritating to eyes and essentially nonirritating to the skin. Halosulfuron-methyl did not produce skin allergy in the guinea pig.

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## 12. Ecological Information

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Ecotoxicity data shown is for the active ingredient, halosulfuron-methyl.

48-hr EC50 Daphnia magna: >107 mg/L; practically nontoxic.

96-hr LC50 Bluegill sunfish: >118 mg/L; practically nontoxic.

96-hr LC50 Rainbow trout: >131 mg/L; practically nontoxic.

5-day EC50 Algae (*Selenastrum capricornutum*): 0.0041/L; very highly toxic.

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## 13. Disposal Considerations

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**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**DISPOSAL AUTHORITIES:** If none of the foregoing procedures is permitted by state and local authorities, then contact your State Pesticide or Environmental control Agency, or your local Hazardous Waste Disposal office, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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## 14. Transport Information

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### DOT Classification

Not Regulated

### International Maritime Organization

Not Regulated

### International Civil Aviation Organization

Not Regulated

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## 15. Regulatory Information

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### SARA Title III Classification

Section 302/304:

Not applicable

Section 311/312:

Immediate (acute) health hazard

Delayed (chronic) health hazard

Section 313 chemical(s):

Not applicable

### Proposition 65

Not Applicable

### CERCLA Reportable Quantity (RQ)

None

### RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### TSCA Status

Exempt from TSCA

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## 16. Other Information

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### NFPA Hazard Ratings

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

**Notice:** The information and recommendations contained herein are provided in good faith and 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 herein.

### Prepared By:

Gowan Company  
(883) 883-1844

Sedgehammer® is a registered trademark of Gowan Company, LLC

# MATERIAL SAFETY DATA SHEET

Revision Date: June 10, 1998

Product Name:	<b>Scythe® Herbicide</b>	Contact:	<b>Mycogen Corporation</b>
Common Synonyms:	Scythe		<b>5501 Oberlin Drive</b>
Mycogen Code	MYX 6121		<b>San Diego, CA 92121</b>
U.S. EPA Registration Number:	53219 - 7		<b>1-800-745-7476</b>
Primary Hazards:	Eye and Skin Irritant	Emergency Telephone:	<b>1-800-228-5635</b>

## SECTION 1 - MATERIAL IDENTIFICATION

### INGREDIENT 1

Common Name: Pelargonic acid  
 Chemical Name: Nonanoic acid  
 Molecular Formula:  $C_9H_{18}O_2$   
 CAS Number: 112-05-0  
 Percent: 57%

### INGREDIENT 2

Common Name: Paraffinic petroleum oil  
 Chemical Name:  
 Molecular Formula:  
 CAS Number: 64741-88-4  
 Percent: 30%

## SECTION 2 - PHYSICAL DATA

Appearance: Colorless to faint yellow liquid  
 Odor: Wax-like odor  
 Boiling Point: 230 - 237°C (atmospheric pressure)  
 Melting Point: 12.5°C  
 Vapor Pressure: 20 mm Hg @ 153°C  
 Specific Gravity: 0.900  
 Solubility in Water: Emulsifiable in water  
 pH: 3.75 (1% solution in distilled water)

## SECTION 3 FIRE AND EXPLOSION

### DATA

Flash Point: >200°F (not flammable)  
 Method: Pensky Martin closed cup  
 Extinguishing Media: Use water spray, dry chemical, foam or carbon dioxide.  
 Special Fire Fighting Procedures: Wear self-contained breathing apparatus when fire fighting in confined area.  
 Unusual Fire and Explosion Hazards: Foam or water can cause frothing.

## SECTION 4 - REACTIVITY

Stability: Stable  
 Hazardous Polymerization: None likely  
 Materials to Avoid: Oxidizing agents  
 Hazardous Decomposition Products: Decomposition may produce carbon dioxide and carbon monoxide.

## SECTION 5 - HEALTH HAZARD

Primary Route of Entry: Dermal, Inhalation  
 Exposure Limit: TLV: 5 mg/m<sup>3</sup> (Ingredient 2).  
 Corrosivity: Not corrosive to metal, rubber or fiberglass. May potentially degrade concrete and loosen paint from painted metal surfaces.  
 Skin/Eye Irritation: Moderate skin and eye irritant  
 Sensitization: Not tested  
 Effects of Overexposure: Prolonged or repeated exposure may be irritating to skin, eyes, and mucous membranes.  
 Toxicity: > 2000 mg/kg (low toxicity)  
 Dermal LD50 (Rabbit) > 5.29 mg/L (4 hour) (low toxicity)  
 Inhalation LC50 (Rat) Moderately Irritating  
 Dermal Irritation (Rat) Severely Irritating  
 Eye Irritation (Rabbit) Not sensitizing  
 Skin Sensitization (G. Pig)

## SECTION 6 - FIRST AID

### Emergency First Aid Procedures:

If swallowed: Call a doctor or get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, eggwhites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.  
 If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.  
 If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.  
 Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

SECTION 7 - SPILL, LEAK AND DISPOSAL PROCEDURES  
Steps To Be Taken In Case Material Is Released Or Spilled:

Do not breath vapor. Do not handle in confined spaces without adequate ventilation. If inadequate use suitable respirator. Avoid contact with skin and eyes.  
Contain leaking liquid with sand, earth or other absorbant and place in a clean container for disposal.

Waste Disposal Method:

Waste, including spills or rinsates, and leftover pesticide that cannot be used according to label instructions must be disposed of according to applicable federal, state, and local procedures.

SECTION 8 - SPECIAL HANDLING

Clothing: Wear long-sleeved shirt and long pants, and shoes plus socks.

Respiratory Protection:

Ensure good ventilation. Specific respiratory protection should not be necessary.

Protective Gloves:

Wear chemical resistant gloves such as Barrier Laminatate, nitrile rubber or neoprene rubber.

Eye Protection:

Protective eyewear such as chemical safety goggles should be worn.

Although general guidance has been provided, the degree of protection required in a particular situation depends on factors such as concentration and duration. More detailed advice on protective devices is available from Mycogen.

SECTION 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:  
Keep in original container, tightly closed in a safe place.  
Empty container completely and dispose of safely.  
Wash any contamination from skin or eyes immediately.  
Remove any heavily contaminated clothing immediately.  
Wash hands and exposed skin before eating, drinking, or smoking and after working with product.

Environmental Hazards:

Do not apply directly to water or wetlands. Do not contaminate water by disposal of equipment washwaters.

SECTION 10 - SHIPPING REGULATIONS

DOT Shipping Name: None  
DOT Hazard Class/ I.D. No.: None  
DOT Label(s): None  
Freight Classification: Comounds Tree or Weed

Killing, Herbicides, N.O.I. NMFC  
50320. Class 60

SARA Title III Hazard Classification:

Immediate (acute) Health: No  
Delayed (chronic) Health: No  
Fire: No  
Sudden Release of Pressure: No  
Reactive: No

National Fire Protection Association Rating:

Health: 1  
Flammability: 1  
Reactivity: 0

This information is provided in good faith but without express or implied warranty.

MYCOGEN CORPORATION

Scythe® is a registered trademark of the Mycogen Corporation

# Material Safety Data Sheet

Product Name: SPEED ZONE Broadleaf Herbicide for Turf

MSDS No.: 654-6

Version No.: 001

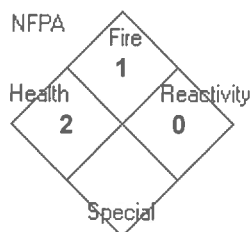
EPA Registration No.: 2217-833

## 1. Basic Information:

**Manufacturer:** PBI/Gordon Corporation  
**Address:** 1217 West 12th Street  
**City, State Zip:** Kansas City, MO 64101-1407  
**Information Contact:** Environmental, Health, & Safety Dept.  
**Information Telephone Number:** (816)421-4070  
**Emergency Contact:** Chemtrec  
**Emergency Telephone Number:** (800)424-9300

Last Update: 10/5/2001

**Chemical State:** ☒ Liquid ☐ Gas ☐ Solid  
**Chemical Type:** ☐ Pure ☒ Mixture



2	Health
1	Flammability
0	Reactivity
B	Pers. Protection

## 2. Ingredients:

☐ Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB	Z					
1928434	2,4-Dichlorophenoxyacetic acid, isooctyl (2-ethylhexyl) ester	28.57%	N	N	Y	N	Y	NI	NI	NI	NI
1918009	3,6-Dichloro-o-anisic acid (Dicamba)	1.71%	N	N	N	N	Y	NI	NI	NI	NI
128639021	Carfentrazone-ethyl	0.62%	N	N	N	N	N	NI	NI	NI	NI
16484778	R(+)-2(2-Methyl-4-chlorophenoxy) propionic acid (MCPP)	5.88%	N	N	Y	N	N	NI	NI	NI	NI

## 3. Hazardous Identification:

### Hazard Category:

☒ Acute ☒ Chronic ☐ Fire ☐ Pressure ☐ Reactive

### Hazardous Identification Information:

The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for carcinogenicity in humans.) The US EPA has given the chlorophenoxy herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

## 4. First Aid Measures:

### Route(s) of Entry:

Skin contact, Inhalation, Ingestion.

### Health Hazards (Acute and Chronic):

EYES: Moderately irritating to eyes.

SKIN: Moderately irritating to the skin.

INHALATION: Moderately irritating to the mucous membranes.

Inhalation of sprays may cause burning sensations in the respiratory tract, resulting in coughing.

INGESTION: May cause vomiting, with pain in the chest and abdomen, and diarrhea.

### Signs and Symptoms:

Inhalation may cause burning in the chest, with coughing. Prolonged inhalation sometimes causes dizziness. Ingestion usually leads to vomiting. Pain in the chest and abdomen, and diarrhea may follow. Headache, mental confusion, and bizarre behavior are early

### First Aid Measures (Continued)

manifestations of severe poisoning, which may progress to unconsciousness.

### Medical Conditions Generally Aggravated by Exposure:

Individuals with chronic skin disease or known sensitivity to chlorophenoxy compounds should either avoid using them or take strict precautions to avoid contact. (respirator, gloves, etc.)

### Emergency First Aid Procedure:

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

If on skin:

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

If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

### Other Health Warnings:

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may

# Material Safety Data Sheet

Product Name: SPEED ZONE Broadleaf Herbicide for Turf

MSDS No.: 654-6

Version No.: 001

EPA Registration No.: 2217-833

## First Aid Measures (Continued)

cause aspiration pneumonia.

### 5. Fire Fighting Measures:

Flash Point: &gt;200°F F.P. Method: Pensky Martens CC

Lower Explosive Limit: NI

Upper Explosive Limit: NI

#### Fire Extinguishing Media:

Foam, CO<sub>2</sub>, dry chemical.

#### Special Fire Fighting Procedures:

Wear positive-pressure breathing apparatus and full protective clothing. Fight fire from maximum distance. Stay up-wind and out of low areas.

#### Unusual Fire and Explosion:

Fire fighting precautions would be the same as those used for any petroleum based oil product. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

### 6. Accidental Release Measures:

#### Steps to be Taken in Case Material is Released or Spilled:

Do not touch spilled material. See Section 8 for Personal Protective Equipment. Contain and absorb spilled material on Dri-Rite, sand or other inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible.

### 7. Handling and Storage:

#### Precautions to be Taken:

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

STORAGE: Store in original container in a locked storage area. Keep from freezing.

#### Other Precautions:

Engineering Control Statements of non-WPS uses:

Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more: Do not open-pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

### 8. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

Good local ventilation is recommended; mechanical ventilation may be used if exposure limits may be exceeded.

#### Personal Protective Equipment:

##### Clothing Requirement Statement:

When mixing, loading, or applying this product, wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and eye protection. It is recommended that safety glasses include front, brow, and temple protection.

##### Personal Hygiene Statement:

After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

PROTECTIVE CLOTHING: Wear long sleeves and pants; chemical-resistant gloves and shoes with socks.

## Exposure Controls/Personal Protection (Continued)

EYE PROTECTION: Safety glasses with side shields or safety goggles.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a NIOSH approved respirator with any R, P or HE filter.

### 9. Physical and Chemical Properties:

Boiling Point: &gt;200 °F

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1) : &lt;1

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H<sub>2</sub>O = 1): 0.96650

Solubility in Water: Emulsifiable

Appearance and Odor: Amber liquid, ester odor

#### Other Information:

pH = 2.92 for a 1% aqueous solution

Density = 8.05 pounds/gallon

Freezing point &lt;35°F

Viscosity: 8.11 cps @ 23.8°C

### 10. Stability and Reactivity:

#### Stability:

Stable.

#### Incompatibility (Materials to Avoid):

None known

#### Decomposition/By-Products:

May produce gases such as HCl, organo chlorides, nitrogen oxides, and carbon monoxide when burning.

#### Hazardous Polymerization:

Will not occur.

### 11. Toxicological Information:

EYES: Moderately irritating to the eye.

SKIN: Moderately irritating to the skin. Acute dermal LD<sub>50</sub> is greater than 2,000 mg/kg for males, and between 1,000 and 2,000 for females. This product is considered to be a contact sensitizer.INHALATION: Acute inhalation LC<sub>50</sub> is greater than 2.06 mg/L in male and female rats.INGESTION: Acute oral LD<sub>50</sub> is greater than 2,000 mg/kg for male and female rats.

### 12. Ecological Information:

Carfentrazone is very toxic to algae and moderately toxic to fish. This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Do not contaminate water when disposing of equipment washwater. When cleaning equipment, do not pour the washwater on the ground;

# Material Safety Data Sheet

Product Name: SPEED ZONE Broadleaf Herbicide for Turf

MSDS No.: 654-6

Version No.: 001

EPA Registration No.: 2217-833

## Ecological Information (Continued)

spray or drain over a large area away from wells and other water sources.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP-p have been associated with mixing, loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPP-p pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

### 13. Disposal Considerations:

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** For Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

For Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.

### 14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: Herbicides, NOI - NMFC #50320

In our current available sizes, this product does not qualify as a Hazardous Material.

### 15. Regulatory Information:

**OSHA STATUS:** This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

**TSCA STATUS:** This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

**CERCLA REPORTABLE QUANTITY:** 339 pounds of the formulation which contains 100 pounds of 2,4-D 2-ethylhexyl ester

**SARA TITLE III:**

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard

SECTION 313 TOXIC CHEMICALS: Dicamba CAS# 1918-00-9, 2,4-D 2-ethylhexyl ester CAS# 1928-43-4

**RCRA STATUS:** When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR 261.20-24)

### 16. Other Information:

REASON FOR ISSUE: New MSDS in the ANSI Z400.1-1998 format

Note: NI means not Indicated.

## Other Information (Continued)

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.

**1. PRODUCT AND COMPANY IDENTIFICATION**

TRADE NAME: SUPPRESS® Herbicide EC, EPA Reg. No. 51517-9  
MANUFACTURER'S NAME: Westbridge Agricultural Products  
ADDRESS: 1260 Avenida Chelsea, Vista, CA 92081  
TELEPHONE NO.: (800) 876-2767  
POISON CONTROL TELEPHONE: (800) 222-1222  
COMPOSITION: Fatty Acids (Caprylic-Capric Acids)  
RECOMMENDED USE: A Liquid Herbicide Concentrate For Agricultural Use.

**2. HAZARD IDENTIFICATION**

CLASSIFICATION:

Irritant



SIGNAL WORD:

**WARNING.** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin and clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tabacoo, or using the toilet. Remove and wash contaminated clothing before reuse.

OTHER HAZARDS:

**SUPPRESS® Herbicide EC** does not contain toxic chemicals in concentrations subject to the reporting requirements of OSHA or Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 or 40 CFR Part 372.

**3. COMPOSITION INFORMATION**

<u>COMPOSITION</u>	<u>Concentration %</u>	<u>CAS Number</u>
Caprylic Acid	47.0%	124-07-2
Capric Acid	32.0%	334-48-5
Inert Ingredients	21.0%	N/A

**4. FIRST AID MEASURES**

<i><b>If on Skin OR Clothing:</b></i>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<i><b>If on Eyes:</b></i>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.
<i><b>If Inhaled:</b></i>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration. Call poison control center or doctor for treatment advice.
<i><b>If Swallowed:</b></i>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

NOTES TO PHYSICIAN: Treat patient symptomatically.

**5. FIRE-FIGHTING MEASURES**

GENERAL INFORMATION: THIS PRODUCT IS NOT FLAMMABLE  
FLASH POINT: N/A  
TEST METHOD: N/A  
EXTINGUISHING MEDIA: N/A  
SPECIAL FIRE FIGHTING PROCEDURES: N/A

AUTOIGNITION TEMPERATURE: N/A  
FLAMMABLE: This product is not flammable  
UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**NEUTRALIZING CHEMICALS:** N/A

## 7. HANDLING AND STORAGE

### HANDLING REQUIREMENTS:

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Workers should wash hands and face before eating, drinking and smoking.
- Wear appropriate respirator when ventilation is inadequate.
- Wear face mask or face shield.
- Wear impermeable or chemical resistant gloves.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist.

### STORAGE REQUIREMENTS:

- **KEEP OUT OF REACH OF CHILDREN.**
- Store in a dry and cool area above freezing and below 95°F and out of direct sunlight.
- Keep in the original container or an approved alternative made from a compatible material.
- Keep container tightly closed when not in use.
- Do not store in unlabeled containers.
- Do not reuse empty containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION REQUIREMENTS:** Indoor use - adequate mechanical ventilation

### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

**EYE PROTECTION:** Wear goggles or face shield.

**RESPIRATORY PROTECTION:** Wear appropriate respirator when ventilation is inadequate. Do not intentionally breathe dust/spray.

**HAND PROTECTION:** Impermeable or chemical resistant gloves.

**OTHER EQUIPMENT:** Wear suitable protective clothing, such as face shield or face mask.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Clear, liquid with fatty odor. Rancid.

**pH:** 3.26 ± 0.5

**BOILING POINT, 760 MM HG:** 100°C

**MELTING POINT:** N/A

**FLASH POINT:** >95°C

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 0.9061

**EVAPORATION RATE (BUTYLACETATE=1):** N/A

**FLAMMABLE:** This product is not flammable

**VAPOR PRESSURE:** Not known

**VAPOR DENSITY (AIR=1):** Not known

**SOLUBILITY IN H<sub>2</sub>O:** Insoluble.

**AUTOIGNITION TEMPERATURE:** N/A

**% VOLATILES BY VOL:** None

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY DATA

**GENERAL INFORMATION:** Stable under recommended storage conditions.

**CORROSIVE:** ☒ YES ☐ NO

**STABILITY:** ☒ stable ☐ unstable

**INCOMPATIBILITY (materials to avoid):** N/A

**HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:** N/A

**HAZARDOUS POLYMERIZATION:** N/A

## 11. TOXICOLOGICAL INFORMATION

### SYMPTOMS OF OVEREXPOSURE

**INHALATION:** None expected.

**SKIN CONTACT:** Potential mild skin irritation.

**SKIN ABSORPTION:** None expected.

**EYE CONTACT:** Causes substantial but temporary eye injury.

**INGESTION:** None expected.

### EFFECTS OF OVEREXPOSURE

**ACUTE OVEREXPOSURE:** Expected toxicity none to slight.

**CHRONIC OVEREXPOSURE:** Expected toxicity none.

### SUSPECTED CANCER AGENT?

☒ NO: This product's ingredients are not found in the lists below.

☐ YES: ☐ Federal OSHA ☐ NTP ☐ IARC ☐ Cal/OSHA ☐ Prop 65

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL EFFECTS:** No known significant effects or critical hazards.

## 13. DISPOSAL PROCEDURES

**WASTE DISPOSAL METHOD:** Follow all applicable Federal, State and local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**CAUTION:** Do not contaminate soil, surface water, drains, sewers or ditches with product or used containers.

## 14. TRANSPORT INFORMATION

**D.O.T.:** Not D.O.T. Regulated.

**IATA CLASSIFICATIONS:** Substances Not Regulated.

**IATA HAZARD CLASS/DIVISION:** Substances Not regulated

**PACKING MATERIALS:** HDPE Containers

## 15. REGULATORY INFORMATION

**EPA REG. NO.:** 51517-9

**ORGANIC CERTIFICATION:** Yes – Organic Materials Review Institute (OMRI)

**PROPOSITION 65 (CA):** N/A.

**SARA TITLE III, SECTION 313 TOXIC CHEMICALS:** None.

## 16. OTHER INFORMATION

All information, recommendations and suggestions appearing herein concerning our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product; nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

®SUPPRESS is a registered trademark of Westbridge Agricultural Products.

**PREPARED BY:** Ivonne Sanchez, Regulatory/R&D Coordinator at Westbridge Agricultural Products

**PREPARED DATE:** November 25, 2013 **REV. DATE:** September 25, 2014 IS

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

1/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

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

#### Product identifier

Trade name SUSPEND® SC INSECTICIDE

Product code (UVP) 85373676

SDS Number 102000032681

EPA Registration No. 432-763

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

Identified uses Insecticide

Restrictions on use See product label for restrictions.

#### Information on supplier

Supplier Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number 1-800-331-2867

### SECTION 2: HAZARDS IDENTIFICATION

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

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

#### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Deltamethrin	52918-63-5	4.75

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

2/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

### SECTION 4: FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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

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

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

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

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

**Suitable** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam, Water

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

#### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

3/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

Flash point	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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

### Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

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

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

4/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

**Requirements for storage areas and containers** Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Protect from freezing.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection** Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

**Eye protection** Tightly fitting safety goggles

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures** Eye wash facility and safety shower should be available.  
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** white  
**Physical State** suspension  
**Odor** characteristic  
**Odour Threshold** No data available  
**pH** ≤ 7.0 at 100 % (23 °C)  
**Vapor Pressure** No data available  
**Vapor Density (Air = 1)** No data available  
**Density** 1.05 g/cm<sup>3</sup> at 20 °C

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

5/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

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Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	No data available
Water solubility	immiscible
Minimum Ignition Energy	Not applicable
Decomposition temperature	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	1,300 - 1,800 cps at 25 °C
Flash point	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

---

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

Thermal decomposition	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	freezing
Incompatible materials	Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

---

## SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Inhalation, Skin contact, Eye contact, Ingestion
Immediate Effects	
Skin	Contact with product may result in transient tingling and reddening of the skin.

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

6/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

**Inhalation** Harmful if inhaled.

### Information on toxicological effects

**Acute oral toxicity** LD50 (Rat) > 15,000 mg/kg

**Acute inhalation toxicity** LC50 (Rat) > 1.02 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.  
Highest attainable concentration.  
No deaths

**Acute dermal toxicity** LD50 (Rabbit) > 10,000 mg/kg

**Skin irritation** slight irritation (Rabbit)

**Eye irritation** Minimally irritating. (Rabbit)

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

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

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

### Assessment mutagenicity

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

### Assessment carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

None.

### NTP

None.

### IARC

Deltamethrin 52918-63-5 Overall evaluation: 3

### OSHA

None.

### Assessment toxicity to reproduction

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

### Further information

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

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

7/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.15 µg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 0.0131 µg/l Exposure time: 48 h The value mentioned relates to the active ingredient deltamethrin.
<b>Toxicity to aquatic plants</b>	EC50 (Algae) > 9.1 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
<b>Biodegradability</b>	Deltamethrin: Not rapidly biodegradable
<b>Koc</b>	Deltamethrin: Koc: 10240000
<b>Bioaccumulation</b>	Lepomis macrochirus (Bluegill sunfish)  Bioconcentration factor (BCF): 189 - 3,930
<b>Bioaccumulation</b>	Deltamethrin: Bioconcentration factor (BCF) 1,400 Does not bioaccumulate.
<b>Mobility in soil</b>	Deltamethrin: Immobile in soil
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Product</b>	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
<b>Contaminated packaging</b>	Triple rinse containers. Add washings to sprayer at time of filling.

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

8/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

Puncture container to avoid re-use.  
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.  
If burned, stay out of smoke.  
Follow advice on product label and/or leaflet.

### RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

---

## SECTION 14: TRANSPORT INFORMATION

**49CFR** Not dangerous goods / not hazardous material

### IMDG

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

### IATA

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

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

---

## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-763

**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**

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

9/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

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.

### Environmental

#### CERCLA

None.

#### Clean Water Section 307 Priority Pollutants

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

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

**Signal word:** Caution!

**Hazard statements:** Harmful if inhaled.  
Avoid inhalation of vapour or mist.  
Contact with product may result in transient tingling and reddening of the skin.  
Remove and wash contaminated clothing before re-use.

---

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association

# SAFETY DATA SHEET



## SUSPEND® SC INSECTICIDE

Version 2.0 / USA  
102000032681

10/10  
Revision Date: 07/07/2017  
Print Date: 07/08/2017

IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

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

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

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

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

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

**Reason for Revision:** The following sections have been revised: Section 13. Disposal considerations.  
Section 14: Transport Information.

**Revision Date:** 07/07/2017

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.



# SAFETY DATA SHEET

## Taurus SC finished spray solution

Page 1 of 7  
Revision Date: September 23, 2016

### SECTION 1: IDENTIFICATION

**Product Name:** Taurus SC finished spray solution  
**EPA Registration No.:** Dilution of 53883-279  
**Recommended Use:** Termiticide/Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** Phenylpyrazole  
**Chemical Name of Active Ingredient(s):** Fipronil: 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(trifluoromethylsulfinyl)pyrazole-3-carbonitrile  
**Manufactured for:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

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

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

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** White milky liquid with a mild sweet odor.

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

This product does not meet the regulatory definition of a hazardous chemical under 29 CFR 1910.1200. However, good industrial hygiene practices should be used in the manufacture and handling of the product.

**Signal Word:** CAUTION FIFRA Signal Word  
**Hazard Statement(s):** None required

#### Precautionary Statement(s):

**Prevention:** No statements required. See section 8 for personal protective equipment.  
**Response:** No statements required. See section 4 for first aid statements.  
**Storage:** No statement required. See section 7 for storage information.  
**Disposal:** No statements required. See section 13 for disposal information.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Fipronil	120068-37-3	0.03 – 0.06%

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

**SECTION 4: FIRST AID MEASURES**

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

**Note to Physician:** There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur.

**Most important symptoms/effects, acute and delayed:** None known

**SECTION 5: FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Foam, dry chemical, carbon dioxide or water spray
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Hazardous Combustion Products:</b>	Thermal decomposition may produce toxic oxides of carbon and nitrogen. Hydrogen chloride and hydrogen cyanide may also be released.
<b>Special Protective Equipment &amp; Precautions:</b>	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).
<b>Unusual Fire &amp; Explosion Hazards:</b>	None known

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions:</b>	See Section 8 for personal protection equipment.
<b>Environmental Precautions:</b>	Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.
<b>Methods for Containment:</b>	Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.
<b>Methods for Clean-up:</b>	Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid

with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

**Other Information:** None known

#### SECTION 7: HANDLING AND STORAGE

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

**Storage:** See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**Storage Temperature (Min/Max):** Not determined

**Product Incompatibilities:** Strong oxidizers

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

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

##### Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
No components listed			

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and chemical resistant footwear plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	White milky liquid	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	None	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH :</b>	6.0 – 8.0	<b>Relative Density (@24°C):</b>	Not determined
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility:</b>	Not determined
<b>Boiling Point/Range:</b>	Not determined	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	Not applicable	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No hazardous chemical reactions known.
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	No potential for hazardous reactions known.
<b>Conditions to Avoid:</b>	Extreme temperatures
<b>Incompatible Materials:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may produce toxic oxides of carbon and nitrogen. Hydrogen chloride and hydrogen cyanide may also be released.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Eye contact, Skin contact, Inhalation, Ingestion
<b>Symptoms of Exposure:</b>	None known
<b>Oral LD<sub>50</sub>:</b>	>5,000 mg/kg (rat)(Based upon similar product)
<b>Dermal LD<sub>50</sub>:</b>	>2,000 mg/kg (rat)(Based upon similar product)
<b>Inhalation LC<sub>50</sub>:</b>	>2.9 mg/L (4-hour)(rat)(Based upon similar product)(No mortality was observed)
<b>Eye Irritation/Damage:</b>	Non-irritant (Based upon similar product)
<b>Skin Corrosion/Irritation:</b>	Slightly irritating (Based upon similar product)
<b>Skin Sensitization:</b>	Non-sensitizer (Based upon similar product)
<b>Chronic/Subchronic Toxicity:</b>	<u>Fipronil Technical:</u> Causes mortality and signs of neurotoxicity through prolonged or repeated exposure.
<b>Mutagenicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Neurotoxicity:</b>	No data available
<b>Target Organs:</b>	No data available
<b>Aspiration Hazard:</b>	Not anticipated to be an aspiration hazard.
<b>Carcinogenicity:</b>	<u>Fipronil Technical:</u> The EPA has classified fipronil as a Group C – Possible Human Carcinogen based upon laboratory animal studies (increased thyroid tumors in male and female rats). Humans and rats have the same mechanism of action which produced fipronil-induced thyroid tumors in the rat; however, the rat appears to be more highly sensitive than humans.

Therefore, the fipronil-induced rat thyroid tumors are not considered suggestive of a human health risk.

Chemical Name	ACGIH	IARC	NTP	OSHA
No components listed				

## SECTION 12: ECOLOGICAL INFORMATION

### Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is toxic to birds, fish, and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care must be taken to avoid runoff. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

### ECOTOXICITY DATA:

Data presented below is on the fipronil technical product.

#### Fish Toxicity:

Zebra fish: 96-hour  $LC_{50}$  = 0.071 mg/L

#### Aquatic Invertebrate Toxicity:

*Daphnia magna*: 96-hour  $EC_{50}$  <0.1 mg/L

#### Aquatic Plant Toxicity:

*P. subcapitata*:  $EC_{50}$  = 3.0 mg/L

#### Avian Toxicity:

Japanese quail:  $LD_{50}$  = 148.5 mg/kg

#### Honeybee Toxicity:

Oral  $LD_{50}$  = 0.003 µg/bee

### ENVIRONMENTAL EFFECTS:

**Persistence and Degradability:** No data available

**Bioaccumulation:** No data available

**Mobility:** No data available

**Other Adverse Effects:** No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

**Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

## SECTION 14: TRANSPORTATION INFORMATION

**DOT (Ground):** Not regulated

**IMDG (Sea):** Not determined

**IATA (Air):** Not determined

**SECTION 15: REGULATORY INFORMATION**

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

**CAUTION**

Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

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

**SARA Title III Information:**

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

**Section 311/312 – Hazard Categories:** None for the finished spray solution

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

Chemical Name	CAS Number	Weight %
None listed		

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

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

**CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol	X		X

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 2	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special Hazards</b> – None
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**Disclaimer:** Control Solutions, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Control Solutions, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability

of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** September 23, 2016  
**Document Superseded:** N/A – New document  
**Revision Note:**



# TERAD3<sup>®</sup> BLOX

## SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA  
Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE:  
January 2015

PREPARED BY:  
CAR

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** TERAD3<sup>®</sup> BLOX

**EPA Registration Number:** 12455-106

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

**Relevant identified uses:** Acute Rodenticide - Ready to use

**Uses advised against:** Use only for the purpose described above

**MANUFACTURER/SUPPLIER:**

Bell Laboratories, Inc.

3699 Kinsman Blvd.

Madison, WI 53704, USA

Email: sds@belllabs.com

Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636

Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

### 2. HAZARD IDENTIFICATION

**Classification according to Regulation OSHA 1910.1200(d):** Not classified

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Cholecalciferol [9,10-secocholesta- 5,7,10(19)-trien-3-ol]	67-97-0	0.075%
Inert and Non-Hazardous Ingredients	Proprietary	99.925%

### 4. FIRST AID MEASURES

**Description of first aid measures**

**Ingestion:** Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

**Inhalation:** Not applicable.

**Eye contact:** Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation develops, obtain medical assistance.

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

Ingestion of excessive quantities may cause hypercalcemia, anorexia, nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, profuse sweating, headache.

**Advice to physician:** There is no specific antidote. If serum calcium levels are elevated, treatment with calcitonin is effective in reducing calcium to normal levels. Continue monitoring serum calcium and treat as necessary for hypercalcemia. (Reference: AMA Drug Evaluations, Third Edition (1977) Chapter 16, pp. 248-251)

**Advice to Veterinarian:** For animals ingesting bait and/or showing poisoning signs, induce vomiting by using hydrogen peroxide or administration of activated charcoal with a cathartic. If clinical signs develop, treatment consisting of saline diuresis combined with the use of furosemide, corticosteroids, and phosphate binders are recommended. Calcitonin or pamidronate may be needed for animals that remain hypercalcemic despite symptomatic treatment.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

**Special hazards arising from the mixture:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include oxides of carbon.

**Advice for firefighters:** Wear protective clothing and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Gloves should be worn when handling the bait. Collect spillage without creating dust.

**Environmental precautions:** Do not allow bait to enter drains or water courses. Where there is contamination of streams, rivers or lakes contact the appropriate environment agency.

### Methods and materials for containment and cleaning up

**For Containment:** Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.

**For Cleaning Up:** Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

**Reference to other sections:** Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Do not handle the product near food, animal foodstuffs or drinking water. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Conditions for safe storage, including any incompatibilities:** Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Established Limits

Component	OSHA	ACGIH	Other Limits
Cholecalciferol	Not Established	Not Established	Not Established

**Appropriate Engineering Controls:** Not required

**Occupational exposure limits:** Not established

### Personal Protective Equipment:

**Respiratory protection:** Not required

**Eye protection:** Not required

**Skin protection:** Shoes plus socks, and waterproof gloves.

**Hygiene recommendations:** Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance/Color:</b>	Blue-grey-beige-brown wax block
<b>Odor:</b>	Sweet grain-like
<b>Odor Threshold:</b>	Not applicable, odor not associated with a hazardous material.
<b>pH:</b>	Not applicable, Terad3 Blox is not dispersible with water.
<b>Melting point:</b>	Not applicable to rodenticide bait
<b>Boiling point:</b>	Not applicable to rodenticide bait
<b>Flash point:</b>	Not applicable, Terad3 Blox does not contain components classified as flammable.
<b>Evaporation rate:</b>	Not applicable, Terad3 Blox is a solid.
<b>Upper/lower flammability or explosive limits:</b>	Not applicable, Terad3 Blox does not contain components classified as flammable or explosive.
<b>Vapor Pressure:</b>	Not applicable to rodenticide bait
<b>Vapor Density:</b>	NA: Terad3 Blox is a solid
<b>Relative Density:</b>	1.13 g/mL @ 20°C
<b>Solubility (water):</b>	Not water soluble
<b>Solubility (solvents):</b>	Not applicable to rodenticide bait
<b>Partition coefficient: n-octanol/water:</b>	Not applicable to rodenticide bait
<b>Auto-ignition temperature:</b>	Not applicable, Terad3 Blox does not contain components classified as flammable.
<b>Decomposition temperature:</b>	Not applicable to rodenticide bait
<b>Viscosity:</b>	Not applicable, Terad3 Blox is not a liquid.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable when stored in original container in a cool, dry location.

**Chemical stability:** Stable when stored in original container in a cool, dry location.

**Possibility of hazardous reactions:** Refer to Hazardous decomposition products

**Conditions to avoid:** Avoid extreme temperatures (below 0°C or above 40°C).

**Incompatible materials:** Avoid strongly alkaline materials.

**Hazardous decomposition products:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute Toxicity

**LD50, oral (ingestion):** >5001 mg/kg (rats) (Cholecalciferol Rat LD50 oral: 43.6 mg/kg bw).

**LD50, dermal (skin contact):** > 5001 mg/kg (rats) (Cholecalciferol not determined).

**LC50, inhalation:** Terad3 Blox is a wax block and therefore exposure by inhalation is not relevant.

**Skin corrosion/irritation :** Not irritating to skin.

**Serious eye damage/Irritation:** Not irritating to eyes.

**Respiratory or skin sensitization:** Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

**Germ cell mutagenicity:** Terad3 Blox contains no components known to have a mutagenetic effect.

**Carcinogenicity:** Terad3 Blox contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Cholecalciferol	Not listed	Not listed	Not listed

**Reproductive Toxicity:** Terad3 Blox: No data

**Aspiration Hazard:** Not applicable. Terad3 Blox is a wax block.

**Target Organ Effects:** Damage caused by an accumulation of calcium.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** This product is toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

**Persistence and degradability:** Terad3 Blox is inherently biodegradable. Cholecalciferol slowly decomposes in water.

**Bioaccumulative potential:** Not determined for Terad3 Blox. Cholecalciferol water solubility is extremely low (< 0.1mg/l).

**Mobility in Soil:** Not determined for Terad3 Blox. Mobility of cholecalciferol in soil is considered to be limited.

**Other adverse effects:** None.

### 13. DISPOSAL CONSIDERATIONS

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

**Pesticide Storage:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**Pesticide Disposal:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

### 14. TRANSPORT INFORMATION

**UN number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group :** Not regulated

**Environmental Hazards**

**DOT Road/Rail:** Not considered hazardous for transportation via road/rail.

**DOT Maritime:** Not considered hazardous for transportation by vessel.

**DOT Air:** Not considered hazardous for transportation by air.

**Freight Classification:** LTL Class 60

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not applicable

**Special precautions for user:** None

### 15. REGULATORY INFORMATION

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

**FIFRA:** This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

**Signal Word:** CAUTION

**Precautionary Statements:** Contains the calcium mobilizer, cholecalciferol. Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

**Potential Health Effects:**

**Eye Contact:** May cause irritation

**Skin Contact:** Non-irritating to the skin

**Ingestion:** Harmful if swallowed

**TSCA:** All components are listed on the TSCA Inventory or are not subject to TSCA requirements

**CERCLA/SARA 313:** Not listed

**CERCLA/SARA 302:** Not listed

### 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

<b>NFPA</b>	Health: 1 (caution)	Flammability: 0 (will not burn)	Reactivity: 0 (stable)	Specific Hazard: None
<b>HMIS</b>	Health: 2 (moderate)	Flammability: 0 (minimal)	Reactivity: 0 (minimal)	Protective Equipment: B

**Disclaimer:** The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or 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 current data, including the approved product label, relevant to their particular use.

# SAFETY DATA SHEET (GHS)



**Date Issued :** 1/16/2013  
**MSDS No :** Vendetta™ PLUS  
**Date-Revised :** 7/16/2014  
**Revision No :** 2

## Vendetta™ PLUS Cockroach Gel Bait

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Vendetta™ PLUS Cockroach Gel Bait  
**PRODUCT DESCRIPTION:** An Insecticide Formulation for Killing Cockroaches.  
**PRODUCT CODE:** 2976, EPA REG. NO. : 1021-2593  
**ACTIVE INGREDIENT(S):** Abamectin; NYLAR® (Pyriproxyfen)

#### MANUFACTURER

McLaughlin Gormley King Company  
 8810 10th Avenue North  
 Minneapolis, MN 55427  
**Emergency Phone:** 1(888) 740-8712  
**Alternate Emergency Phone:** 1(952) 852-9509  
**Product Stewardship:** 1(800) 645-6466  
**E-Mail:** mgk-sds@mgk.com

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

##### FOR TRANSPORTATION:

**CHEMTREC® U.S. and CANADA:** 1(800) 424-9300  
**CHEMTREC® All Other Areas:** 1(703) 527-3887

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Skin Sensitization, Category 1B  
 Acute Toxicity (Oral), Category 5

##### Environmental:

Acute Hazards to the Aquatic Environment, Category 1

#### GHS LABEL



Exclamation  
mark  
(GHS 07)



Environment  
(GHS 09)

#### SIGNAL WORD: WARNING

#### HAZARD STATEMENTS

H317: May cause an allergic skin reaction.  
 H303: May be harmful if swallowed.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P202: Do not handle until all safety precautions have been read and understood.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P270: Do not eat, drink, or smoke when using this product.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

# SAFETY DATA SHEET (GHS)



**Date Issued :** 1/16/2013  
**MSDS No :** Vendetta™ PLUS  
**Date-Revised :** 7/16/2014  
**Revision No :** 2

## Vendetta™ PLUS Cockroach Gel Bait

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

### Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

**COMMENTS:** This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Abamectin	0.05	71751-41-2
NYLAR® (Pyriproxyfen)	0.5	95737-68-1

**COMMENTS:** Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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

**INGESTION:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** This product is NOT classified as flammable or combustible by OSHA.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide or dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** This product is classified as Non-Combustible, however in the extreme temperatures that fires may produce, some of the constituents of this formula may decompose to give off such gases as carbon dioxide, carbon monoxide, and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

# SAFETY DATA SHEET (GHS)



**Date Issued :** 1/16/2013  
**MSDS No :** Vendetta™ PLUS  
**Date-Revised :** 7/16/2014  
**Revision No :** 2

## Vendetta™ PLUS Cockroach Gel Bait

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep into a container for reuse.

**LARGE SPILL:** Scoop or shovel into containers for reuse.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Contains Pyrethroids, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** DO NOT APPLY THIS PRODUCT IN OR ON ELECTRICAL EQUIPMENT DUE TO THE POSSIBILITY OF SHOCK HAZARD.

**HANDLING:** Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton. Wear a long-sleeved shirt and long pants, shoes and socks. Mechanical ventilation should be used when handling this product in enclosed spaces. Do not contaminate water, food or feedstuffs by storage, handling, or disposal.

READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL.

**STORAGE:** Store in a cool, dry place. Keep container closed. Always store pesticides in the original container. Store away from food and pet-food.

KEEP OUT OF REACH OF CHILDREN.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Abamectin	<b>TWA</b>	None		None		[1]	0.02 [1]
NYLAR® (Pyriproxyfen)	<b>TWA</b>	None		None		None	
<b>OSHA TABLE COMMENTS:</b>							
1. Recommended by manufacturer.							

**ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes.

**SKIN:** Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton, and wear protective clothing.

**PROTECTIVE CLOTHING:** Wear a long-sleeved shirt and long pants, shoes and socks.

**WORK HYGIENIC PRACTICES:** DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the

# SAFETY DATA SHEET (GHS)



**Date Issued :** 1/16/2013  
**MSDS No :** Vendetta™ PLUS  
**Date-Revised :** 7/16/2014  
**Revision No :** 2

## Vendetta™ PLUS Cockroach Gel Bait

toilet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Gel.

**ODOR:** Odor of dog food.

**APPEARANCE:** Brown/ tan-colored.

**pH:** 5.1

**Notes:** @ 5% in water.

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Applicable

**SOLUBILITY IN WATER:** Partially miscible in water.

**SPECIFIC GRAVITY:** 1.36 (Water = 1) at 20°C (68°F)

**VISCOSITY #1:** 3450 CPS at 54.8°C (130.6°F) Brookfield

**(VOC):** 0 %

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Not compatible with strong acids or bases. Not compatible with strong oxidizers.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**DERMAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rabbit.

**ORAL LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rat.

**EYE EFFECTS:** Minimal eye irritation, clearing within 24 hours (Albino rabbits). Maximum Mean Total Score = 6.7.

**SKIN EFFECTS:** Non-irritating (Albino rabbits). Produced a Primary Dermal Irritation Index of 0.1. All animals were free of erythema and edema by Day 7.

**SENSITIZATION:** Positive.

**GENERAL COMMENTS:** Some or all of the toxicity data reported above was bridged from a substantially similar formula.

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

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is toxic to fish and wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

### 13. DISPOSAL CONSIDERATIONS

# SAFETY DATA SHEET (GHS)



**Date Issued :** 1/16/2013  
**MSDS No :** Vendetta™ PLUS  
**Date-Revised :** 7/16/2014  
**Revision No :** 2

## Vendetta™ PLUS Cockroach Gel Bait

### DISPOSAL METHOD:

IF EMPTY:

Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

IF PARTLY FILLED:

Call your local solid waste agency for disposal instructions. Never pour unused product down any indoor or outdoor drain.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**OTHER SHIPPING INFORMATION:** This material is considered to be NON-HAZARDOUS by DOT regulations.

### AIR (ICAO/IATA)

**SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**NOTE:** Not considered hazardous by IATA/ ICAO regulations for transportation via air.

### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not Available

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

**313 REPORTABLE INGREDIENTS:** This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

#### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

### REGULATIONS

#### STATE REGULATIONS:

**VOLATILE ORGANIC COMPOUNDS (VOC):**

# SAFETY DATA SHEET (GHS)



**Date Issued :** 1/16/2013  
**MSDS No :** Vendetta™ PLUS  
**Date-Revised :** 7/16/2014  
**Revision No :** 2

## Vendetta™ PLUS Cockroach Gel Bait

This product contains no VOC's (0%).

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** NOTE: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

**CAUTION.** Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### Personal Protective Equipment (PPE):

Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton.  
 Wear a long-sleeved shirt and long pants, shoes and socks.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not apply this product around electrical equipment due to the possibility of shock hazard.

## 16. OTHER INFORMATION

**REVISION SUMMARY:** This MSDS replaces the 1/16/2013 MSDS. Revised: **Section 2:** EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS ( SKIN, INGESTION ). **Section 15:** FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT).

### HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

**HMIS RATINGS NOTES:** We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

**COMMENTS:** The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

MSDS Prepared by T. Azzivitto



We create chemistry

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19  
Version: 4.0

Page: 1/12  
(30599963/SDS CPA US/EN)

### 1. Identification

Product identifier used on the label

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Recommended use of the chemical and restriction on use

Recommended use\*: insecticide

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

Details of the supplier of the safety data sheet

Company:

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

Telephone: +1 973 245-6000

Emergency telephone number

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

Other means of identification

Substance number:	597802
EPA Registration number:	499-550
Synonyms:	Prallethrin

### 2. Hazards Identification

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

Classification of the product

Asp. Tox.	1	Aspiration hazard
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Label elements

Pictogram:

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 2/12

(30599963/SDS\_CPA\_US/EN)



Signal Word:  
Danger

Hazard Statement:

H304 May be fatal if swallowed and enters airways.

Precautionary Statements (Response):

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

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

### 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>
23031-36-9	0.1 %	Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propen-1-yl)-, 2-methyl-4-oxo-3-(2-propyn-1-yl)-2-cyclopenten-1-yl ester
64742-47-8	75.0 - 100.0%	Distillates, petroleum
124-38-9	3.0 - 5.0%	carbon dioxide

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

##### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 3/12

(30599963/SDS CPA US/EN)

### **If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

#### Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

---

## **5. Fire-Fighting Measures**

### **Extinguishing media**

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

### **Special hazards arising from the substance or mixture**

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen oxides  
The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure.

### **Advice for fire-fighters**

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

### **Further information:**

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

---

## **6. Accidental release measures**

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

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

### **Environmental precautions**

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

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

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19  
Version: 4.0

Page: 4/12  
(30599963/SDS CPA\_US/EN)

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

### 7. Handling and Storage

#### Precautions for safe handling

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

Protection against fire and explosion:

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

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

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

Segregate from foods and animal feeds.

Further information on storage conditions: Protect from direct sunlight. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Storage stability:

May be kept indefinitely if stored properly.

If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

Protect from temperatures above: 130 °F

Explosive at or above indicated temperature.

### 8. Exposure Controls/Personal Protection

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

#### Components with occupational exposure limits

carbon dioxide	OSHA PEL	PEL 5,000 ppm 9,000 mg/m <sup>3</sup> ; STEL value 30,000 ppm 54,000 mg/m <sup>3</sup> ; TWA value 10,000 ppm 18,000 mg/m <sup>3</sup> ;
	ACGIH TLV	STEL value 30,000 ppm ; TWA value 5,000 ppm ;

Distillates, petroleum

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 5/12

(30599963/SDS\_CPA\_US/EN)

ACGIH TLV      TWA value 200 mg/m<sup>3</sup> 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. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

---

## 9. Physical and Chemical Properties

Form:	aerosol
Odour:	characteristic, of petroleum distillate (e.g. gasoline, kerosene)
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	colourless
pH value:	approx. 4.5 - 6.5 ( 23.7 °C)
Melting point:	< -30 °C Information applies to the solvent.

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 6/12

(30599963/SDS CPA\_US/EN)

Boiling point:	approx. 193 - 245 °C Information applies to the solvent.	
Flash point:	73 °C Information applies to the solvent.	
Flammability of Aerosol Products:	> 18 in no flashback	(ASTM D 3065)
NFPA 30B flammability:	Level 3 Aerosol	
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:	220 - 250 °C Information applies to the solvent.	
Vapour pressure:	approx. 0.19 - 0.25 hPa ( 20 °C)	
Density:	Information applies to the solvent. approx. 0.8 g/cm3 ( 20 °C)	
Vapour density:	not applicable	
Partitioning coefficient n-octanol/water (log Pow):	approx. 4.49 ( 25 °C) The values mentioned are those of the active ingredient.	
Thermal decomposition:	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. No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	approx. 2.32 cps ( 21.6 °C)	
Solubility in water:	dispersible	
Evaporation rate:	not applicable	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

### 10. Stability and Reactivity

#### Reactivity

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

#### Corrosion to metals:

Corrosive effects to metal are not anticipated.

#### Oxidizing properties:

not fire-propagating

#### Chemical stability

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

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 7/12

(30599963/SDS\_CPA\_US/EN)

### Possibility of hazardous reactions

The product is chemically stable.

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 oxidizing agents, alkali or alkaline-earth metal

strong acids, strong bases, strong oxidizing agents

### 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.

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

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.

No decomposition if stored and handled as prescribed/indicated.

---

## 11. Toxicological information

### Primary routes of exposure

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

### Acute Toxicity/Effects

#### Acute toxicity

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

Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

#### Oral

Type of value: LD50

Species: rat (female)

Value: > 5,000 mg/kg

#### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 2.08 mg/l

Exposure time: 4 h

#### Dermal

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19  
Version: 4.0

Page: 8/12  
(30599963/SDS\_CPA\_US/EN)

Type of value: LD50  
Species: rat (male/female)  
Value: > 5,000 mg/kg

### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

### Irritation / corrosion

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

### Skin

Species: rabbit  
Result: Irritant.

### Eye

Species: rabbit  
Result: non-irritant

### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.  
There is no evidence of a skin-sensitizing potential.

### Buehler test

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

## Chronic Toxicity/Effects

### Repeated dose toxicity

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

### *Information on: carbon dioxide*

*Assessment of repeated dose toxicity: The substance may cause damage to the lung after repeated inhalation of high doses. The substance may cause damage to the heart after repeated inhalation of high doses, as shown in animal studies.*

-----

### Genetic toxicity

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

### Carcinogenicity

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

### Reproductive toxicity

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

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 9/12

(30599963/SDS\_CPA\_US/EN)

### Teratogenicity

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

*Information on: carbon dioxide*

*Assessment of teratogenicity: The potential to cause toxicity to development cannot be excluded at maternally toxic doses.*

### Other Information

Misuse can be harmful to health.

### **Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

---

## 12. Ecological Information

### **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Toxic to aquatic life with long lasting effects.

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

### Toxicity to fish

*Information on: Prallethrin*

*LC50 (96 h) 0.012 mg/l, Oncorhynchus mykiss*

*The ecological data given are those of the active ingredient.*

### Aquatic invertebrates

*Information on: Prallethrin*

*EC50 (48 h) 0.0062 mg/l, daphnia*

### Aquatic plants

*Information on: Prallethrin*

*EC50 (72 h) 2 mg/l, algae*

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H2O)

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

#### Assessment biodegradation and elimination (H2O)

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19  
Version: 4.0

Page: 10/12  
(30599963/SDS\_CPA\_US/EN)

*Information on: Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propen-1-yl)-, 2-methyl-4-oxo-3-(2-propyn-1-yl)-2-cyclopenten-1-yl ester*

*Not readily biodegradable (by OECD criteria).*  
-----

### Bioaccumulative potential

#### Assessment bioaccumulation potential

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

#### Assessment bioaccumulation potential

*Information on: Prallethrin*

*Information on: Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics*

*Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.*

*Accumulation in organisms is expected.*  
-----

### Mobility in soil

#### Assessment transport between environmental compartments

No data available.

### 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:**

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

---

## 14. Transport Information

### **Land transport**

USDOT

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1
Proper shipping name:	AEROSOLS

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Page: 11/12

Version: 4.0

(30599963/SDS\_CPA\_US/EN)

### Sea transport

#### IMDG

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1, EHSM  
Marine pollutant: YES  
Proper shipping name: AEROSOLS (contains HYDROTREATED LIGHT DISTILLATES (PETROLEUM), PRALLETHRIN)

### Air transport

#### IATA/ICAO

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1  
Proper shipping name: AEROSOLS, FLAMMABLE

### Further information

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

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

### State regulations

#### State RTK

State RTK	CAS Number	Chemical name
PA	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum
MA	64742-47-8	Distillates, petroleum
	124-38-9	carbon dioxide
NJ	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum

### 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.

May cause moderate but temporary irritation to the eyes.

Avoid contact with the skin, eyes and clothing.

# Safety Data Sheet

## PT WASP-FREEZE II WASP & HORNET INSECTICIDE

Revision date : 2017/06/19

Version: 4.0

Page: 12/12

(30599963/SDS\_CPA\_US/EN)

Wash thoroughly after handling.

Aerosol container contains flammable gas under pressure.

Flammable Liquid

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2017/06/19

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

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END OF DATA SHEET



# Safety Data Sheet

## Weed Zap®

### SECTION 1: Product and Company Identification

Safergro Laboratories, Inc.  
4987 Olivas Park Drive, Ventura, CA 93003  
Tel: (805) 650-8918 Fax: (805) 650-8942 [info@safergro.com](mailto:info@safergro.com)  
Emergency tel: (800) 428-3493 (within United States)  
(805) 650-8933 (outside United States)

Product name: Weed Zap®  
Product code: 02390  
Product use: Herbicide  
Product type: Vegetable oil, essential oil

### SECTION 2: Hazards Identification

Signal word: Caution  
Hazard statement: None  
Precautionary statement: Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.  
HMIS Rating: Health = 1 Flammability = 0 Reactivity = 0

### SECTION 3: Composition/Information on Ingredients

Component	CAS No.	%
Cinnamon oil	8015-91-6	45 %
Clove oil	8000-34-8	45 %
Lactose	64044-51-5	0 – 10 %

The specific identity and/or exact percentage of composition is not provided because it is a trade secret or is not considered hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

### SECTION 4: First Aid Measures

Inhalation: Remove from source of exposure. Get medical attention if necessary.  
Skin contact: Wash with plenty of soap and water. Get medical attention if irritation persists.  
Eye contact: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.  
Ingestion: Call physician or Poison Control Center. Drink one or two glasses of water. Do not induce vomiting. If person is unconscious, do not give anything by mouth or induce vomiting.

### SECTION 5: Firefighting Measures

**Suitable extinguishing media:** Water spray, dry chemical, carbon dioxide, foam  
**Special hazards arising from the substance or mixture:** None  
**Protection for firefighters:** Wear protective clothing and equipment

### SECTION 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing, gloves, and safety eye goggles.

**Environmental precautions**  
Avoid discharge into environment

**Methods and material for containment and cleaning up**  
Contain all spills and leaks to prevent discharge into the environment. Use appropriate tools to transfer spill material to proper disposal container. Or recover material and use it for its intended purpose.

### SECTION 7: Handling and Storage

**Precautions for safe handling**  
Avoid overheating or freezing.

**Conditions for safe storage, including any incompatibilities**  
Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed when not in use.

### SECTION 8: Exposure Controls/Personal Protection

**Exposure controls**  
Product has no occupational exposure limits. Avoid inhaling dusts or vapors. Practice good industrial hygiene and safety.

**Personal protection**  
Eye protection: Eye protection is not required. To avoid contact with eyes, use safety eye goggles.  
Skin protection: Wear protective clothing as necessary to minimize contact. Use chemical resistant gloves.  
Respiratory protection: Not required. Wear approved respiratory equipment if necessary.



# Safety Data Sheet

## Weed Zap®

### SECTION 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

Appearance	Yellow, amber color	Vapor pressure	Not applicable
Odor	Cinnamon, clove odor	Vapor density	Not applicable
pH	6 – 7.5	Relative density	1 g/ml
Physical state	Liquid	Solubility	Not water soluble
Melting point / Freezing point	0°C / 32°F	Partition coefficient	Not applicable
Boiling point	100°C / 212°F	Auto-ignition temperature	Not applicable
Flash point	Not applicable	Decomposition temperature	Not applicable
Evaporation rate	Not applicable	Viscosity	Lightly viscous
Flammability	Non-flammable	Explosive properties	Non-explosive
Explosive limits	Not applicable	Oxidizing properties	Non-oxidizer

### SECTION 10: Stability and Reactivity

Reactivity: None

Chemical stability: Product is stable.

Possibility of hazardous reactions: Under normal conditions, hazardous reaction will not occur.

Conditions to avoid: Avoid heat

Incompatible materials: None

Hazardous decomposition products: No known hazardous decomposition products.

### SECTION 11: Toxicological Information

#### Information on toxicological effects

Acute toxicity	Harmful if swallowed	Dose toxicity	Not known to be toxic
Irritation	May cause eye or skin irritation	Carcinogenicity	Not known to be carcinogenic
Corrosivity	Not known to be corrosive	Mutagenicity	Not known to be mutagenic
Sensitization	Not known to cause sensitization	Reproductive toxicity	Not known to cause reproductive harm

### SECTION 12: Ecological Information

Ecotoxicity: Not considered hazardous.

Persistence and degradability: Biodegradable

Bioaccumulative potential: Not available

Mobility in soil: Mobile

### SECTION 13: Disposal Considerations

#### Waste treatment methods

Not hazardous waste. Dispose of product in accordance with regulations.

### SECTION 14: Transport Information

Not regulated by U.S. DOT as hazardous material.

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: Not applicable

### SECTION 15: Regulatory Information

#### Safety, health and environmental regulations/legislation specific for the product

None

### SECTION 16: Other Information

Issued: 5/11/2015

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