

Integrated Pest Management

Material Safety Data Sheets (MSDS)

Safety Data Sheets (SDS)

Pest Management Vendor:



Material Safety Data Sheets

1. Demand CS
2. Suspend Polyzone
3. Gentrol Point
4. Delta Dust
5. Contract Bait
6. Avert Gel Bait
7. Kicker
8. Victor Glue Board
9. Gentrol Aerosol
10. Wasp Freeze
11. Advion Roach Gel
12. Alpine Prescription Treatment
13. Steri-fab
14. In Vade Bio Drain

Columbia Public Schools Pest Management Vendor:



1 Demand CS

Syngenta Crop Protection, Inc.
Post Office Box 18300
Greensboro, NC 27419

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

1. PRODUCT IDENTIFICATION

Product Name:	DEMAND CS	Product No.:	A12690A
EPA Signal Word:	Caution		
Active Ingredient(%):	Lambda-Cyhalothrin Technical (9.7%)	CAS No.:	91465-08-6
Chemical Name:	[1a(S*),3a(Z)]-cyano(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate		
Chemical Class:	A pyrethroid insecticide		
EPA Registration Number(s):	100-1066	Section(s) Revised:	2, 3, 8, 12, 15

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Xylene (< 1%)	100 ppm TWA	100 ppm TWA; 150 ppm STEL	100 ppm TWA**	IARC Group 3
1,2,4-Trimethylbenzene (<= 2.2%)	Not Established	25 ppm TWA	25 ppm TWA**	No
Cumene (< 1%)	50 ppm TWA (skin)	50 ppm TWA	Not Established	No
Petroleum Solvent	Not Established	Not Established	100 mg/m ³ (19 ppm) TWA*	No
Lambda-Cyhalothrin Technical (9.7%)	Not Established	Not Established	0.04 mg/m ³ TWA (skin)***	No

* recommended by manufacturer

** recommended by NIOSH

*** Syngenta Occupational Exposure Limit (OEL)

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

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

May cause eye and skin irritation. Allergic skin reactions are possible.

May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: Off-white liquid

Odor: Slight odor/typical aromatic solvent

Unusual Fire, Explosion and Reactivity Hazards

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

4. FIRST AID MEASURES

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

- Ingestion:** If swallowed: 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 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.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

- Flash Point (Test Method): > 212°F (Setaflash)
- Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable
- Autoignition Temperature: Not Available
- Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

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

In Case of Fire

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

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

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

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

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear. Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11).

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid

Odor: Slight odor/typical aromatic solvent

Melting Point: Not Available

Boiling Point: 212°F

Specific Gravity/Density: 1.04 @ 68°F (20°C)

pH: 7.3 (1% w/w dilution in deionized water)

Solubility in H₂O

Lambda-Cyhalothrin Technical: 0.004 mg/ l

Vapor Pressure

Lambda-Cyhalothrin Technical: 1.5 x 10⁻⁹ mmHg @ 68°F (20°C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Practically Non-Toxic
Oral (LD50 Rat) : > 5,000 mg/kg body weight

Dermal: Slightly Toxic
Dermal (LD50 Rat) : > 2,000 mg/kg body weight

Inhalation: Practically Non-Toxic
Inhalation (LC50 Rat) : > 4.62 mg/l air - 4 hours

Eye Contact: Mildly Irritating (Rabbit)

Skin Contact: Moderately Irritating (Rabbit)

Skin Sensitization: A weak skin sensitizer in animal tests.

Reproductive/Developmental Effects

Lambda-Cyhalothrin Not a developmental or reproductive toxicant.
Technical:

Chronic/Subchronic Toxicity Studies

Lambda-Cyhalothrin Reversible paresthesia (abnormal skin sensation).
Technical: Reversible clinical signs of neurotoxicity in mammals.

Carcinogenicity

Lambda-Cyhalothrin No treatment-related tumors in rats or mice.
Technical:

Other Toxicity Information

In humans, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to this effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS.

Toxicity of Other Components

1,2,4-Trimethylbenzene (<= 2.2%)

Inhalation of 1,2,4-trimethylbenzene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma. Effects of chronic exposure to this solvent can include blood disorders (anemia, leukopenia) and kidney or liver damage.

Cumene (< 1%)

Exposure to cumene vapors may cause irritation to eyes, skin, and respiratory tract. Cumene may also cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects. Prolonged exposure to high concentrations (>100 PPM) may result in liver, kidney or lung damage.

Petroleum Solvent

The supplier reports that high vapor/aerosol concentrations (> 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects.

Xylene (< 1%)

Inhalation of xylene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma.

Target Organs

Active Ingredients

Lambda-Cyhalothrin Technical: Liver, nervous system

Inert Ingredients

1,2,4-Trimethylbenzene: CNS, liver, kidney, blood, respiratory tract, skin, eye

Cumene: Skin, eye, liver, respiratory tract, kidney, CNS

Petroleum Solvent: Eye, respiratory tract, CNS

Xylene: CNS, respiratory tract, skin

12. ECOLOGICAL INFORMATION

Summary of Effects

Lambda-Cyhalothrin Technical:

Slightly toxic to birds. Highly toxic to fish, invertebrates and bees.

Eco-Acute Toxicity

Lambda- Bees LC50/EC50 0.038 ug/bee

Cyhalothrin Invertebrates (Water Flea) LC50/EC50 0.00036 ppm

Technical: Fish (Trout) LC50/EC50 0.00024 ppm

Fish (Bluegill) LC50/EC50 0.00021 ppm

Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,300 ppm

Birds (8-day dietary - Mallard Duck) LC50/EC50 > 3,948 ppm

Eco-Chronic Toxicity

Lambda-Cyhalothrin Technical: Not available at this time.

Environmental Fate

Lambda-Cyhalothrin Technical:

No data available for the formulation. The information presented here is for the active ingredient, lambda-cyhalothrin. A thorough review of environmental information is not possible in this document.
Not persistent in soil or water. Immobile in soil. Sinks in water (after 24 h).

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: Xylene U239

14. TRANSPORT INFORMATION

DOT Classification

Not regulated by DOT.

B/L Freight Classification

Insecticides, NOIBN, o/t poison

Comments

None.

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Xylene (< 1%) (CAS No. 1330-20-7)
1,2,4-Trimethylbenzene (<= 2.2%) (CAS No. 95-63-6)
Cumene (< 1%) (CAS No. 98-82-8)

California Proposition 65

Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

Report product spills > 520 gal. (based on xylene [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

0 Minimal
1 Slight
2 Moderate
3 Serious
4 Extreme

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 07/14/1999

Revision Date: 06/09/2003

Replaces: 12/27/2001

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.

RSVP# : SCP-955-00303D

End of MSDS

2 Suspend Polyzone



Material Safety Data Sheet
SUSPEND® POLYZONE

MSDS Number: 102000024585

MSDS Version 1.0

Revision Date: 10/24/2011

Print Date: 10/24/2011

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	SUSPEND® POLYZONE
MSDS Number	102000024585
Product code (UVP)	79986521
EPA Registration No.	432-1514

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

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

SECTION 2. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Moderate eye irritation. Avoid contact with skin and clothing.

Physical State	liquid
Odor	sweet characteristic
Appearance	light tan to brown
Exposure routes	Eye contact, Skin contact, Inhalation

Immediate Effects

Eye	Moderate eye irritation. Avoid contact with eyes.
Skin	May cause skin irritation. Avoid contact with skin and clothing.
Ingestion	Do not take internally.
Inhalation	Do not breathe vapours or spray mist.

Potential Environmental Effect	Extremely toxic to fish and aquatic invertebrates. Highly toxic to bees.
---------------------------------------	--

**Material Safety Data Sheet**
SUSPEND® POLYZONEMSDS Number: 102000024585
MSDS Version 1.0**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Deltamethrin	52918-63-5	4.75
1,2-Propanediol	57-55-6	6.50

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to physician Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	not applicable
Autoignition temperature	no data available
Lower Flammability Limit	not applicable
Upper Flammability Limit	not applicable
Explosiveness	no data available



Material Safety Data Sheet

SUSPEND® POLYZONE

MSDS Number: 102000024585
MSDS Version 1.0

Suitable extinguishing media	Carbon dioxide (CO ₂), Dry chemical, Foam, Water
Fire Fighting Instructions	Evacuate personnel to safe areas. 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. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Dust explosion class	Not applicable.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces. In case of spill, leak or emergency, use a NIOSH approved chemical cartridge-type respirator.
Methods for cleaning up	Dike area to prevent runoff. 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 surface thoroughly. Decontaminate tools and equipment following cleanup.
Additional advice	Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation. Information regarding safe handling, see section 7. Inform appropriate authorities immediately if contamination occurs. Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling procedures	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. Avoid contact with skin, eyes and clothing.
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.
Work/Hygienic Procedures	Handle in accordance with good industrial hygiene and safety practice. 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 soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Material Safety Data Sheet**
SUSPEND® POLYZONEMSDS Number: 102000024585
MSDS Version 1.0**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

General Protection	Train employees in safe use of the product. Follow all label instructions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Eye/Face Protection	Tightly fitting safety goggles
Hand protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Deltamethrin	52918-63-5	OES BCS*	TWA	0.02 mg/m3
1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m3
		TX ESL	ST ESL	20 ug/m3
		TX ESL	ST ESL	500 ppm
		TX ESL	AN ESL	2 ug/m3
		TX ESL	AN ESL	50 ppm

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	light tan to brown
Physical State	liquid
Odor	sweet characteristic
pH	4 - 5.5
Vapor Pressure	not applicable
Vapor Density (Air = 1)	not applicable
Density	1.05 g/cm ³
Evaporation rate	no data available



Material Safety Data Sheet

SUSPEND® POLYZONE

MSDS Number: 102000024585
MSDS Version 1.0

Boiling Point	not applicable
Melting / Freezing Point	no data available
Water solubility	no data available
Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing
Incompatibility	no data available
Hazardous Decomposition Products	no data available
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability	Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute oral toxicity	female rat: LD50: > 5,000 mg/kg
Acute dermal toxicity	male/female combined rat: LD50: > 5,000 mg/kg



Material Safety Data Sheet

SUSPEND® POLYZONE

MSDS Number: 102000024585
MSDS Version 1.0

Acute inhalation toxicity male/female combined rat: LC50: > 2.08 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
Highest attainable concentration.
No deaths

male/female combined rat: LC50: > 8.32 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.

Skin irritation rabbit: Moderate skin irritation.

Eye irritation rabbit: Moderate eye irritation.

Sensitisation guinea pig: Non-sensitizing.

Chronic toxicity Deltamethrin caused neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs.

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.

Reproductive toxicity

REPRODUCTION: Deltamethrin was not a reproductive toxicant in multi-generation reproduction studies in rats.

DEVELOPMENTAL TOXICITY: Deltamethrin was not a primary developmental toxicant in developmental toxicity studies in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed in rabbits at the high-dose but were considered secondary to maternal toxicity.

Assessment neurotoxicity

Deltamethrin caused neurobehavioral effects (e.g., tremors) without correlating neuropathological changes in acute and subchronic neurotoxicity screening studies in rats. In a developmental neurotoxicity screening study in rats, developmental landmarks were delayed in male offspring at the maternally toxic high-dose.

Mutagenicity

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

**Material Safety Data Sheet**
SUSPEND® POLYZONEMSDS Number: 102000024585
MSDS Version 1.0**SECTION 12. ECOLOGICAL INFORMATION**

Toxicity to fish	Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50: 0.00091 mg/l Exposure time: 96 h
Toxicity to aquatic plants	Algae EC50: > 9.1 mg/l Exposure time: 96 h
Acute Toxicity to Aquatic Invertebrates	Water flea (<i>Daphnia magna</i>) EC50: 0.00056 mg/l Exposure time: 48 h
Bioaccumulation	<i>Lepomis macrochirus</i> (Bluegill sunfish) BCF: 1,400
Environmental precautions	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.
Ecological Information	The ecological data given are those of the active ingredient.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Follow advice on product label and/or leaflet.
Container Disposal	Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Consult state and local regulations regarding the proper disposal of container. 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	

**Material Safety Data Sheet**
SUSPEND® POLYZONEMSDS Number: 102000024585
MSDS Version 1.0

UN-Number 3082
Class 9
Packaging group III
Marine pollutant YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DELTAMETHRIN SOLUTION)

IATA
UN-Number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES
Description of the goods 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. 432-1514

US Federal Regulations**TSCA list**

1,2-Propanediol 57-55-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting**CA Prop65**

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

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

US State Right-To-Know Ingredients

1,2-Propanediol 57-55-6 MN, RI

Canadian Regulations**Canadian Domestic Substance List**

1,2-Propanediol 57-55-6

Environmental**CERCLA**

None.



Material Safety Data Sheet
SUSPEND® POLYZONE

MSDS Number: 102000024585
MSDS Version 1.0

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Deltamethrin

52918-63-5

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

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

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

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

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

Reason for Revision: New Material Safety Data Sheet.

Revision Date: 10/24/2011

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.

3 Control Point



Date Issued: December, 1997

Supersedes: April, 1996

MATERIAL SAFETY DATA SHEET - GENTROL® POINT SOURCE ROACH CONTROL DEVICE

Manufacturer: Wellmark International

Address: 1000 Tower Lane, Suite 245, Bensenville, Illinois 60106

Emergency Phone: 1-800-248-7763

Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Gentrol® Point Source Roach Control Device

Chemical Name/ Synonym: (S)-Hydroprene: (Ethyl(2E, 4E, 7S)-3, 7, 11-trimethyl-2, 4-dodecadienoate)

Chemical Family: Isoprenoid

Formula: C₁₇ H₃₀ O₂

EPA Registration No.: 2724-469

RF Number:

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Component (chemical, common name)	CAS Number	Weight	Tolerance
(S)-Hydroprene: (Ethyl(2E, 4E, 7S)-3, 7, 11-trimethyl-2, 4-dodecadienoate)	65733-18-8	90.6%	Not established
Inert Ingredients (non hazardous and/or trade secret)		9.4%	Not established

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

CAUTION: AVOID CONTACT WITH EYES. SENSITIVE INDIVIDUALS MAY HAVE AN ALLERGIC REACTION AFTER REPEATED USE OF THIS PRODUCT.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Non-specific

PRIMARY ROUTE OF ENTRY Dermal/ Eye: Yes Oral: No Inhalation: No

Due to the unique nature of the product form, acute toxicity hazards are not anticipated.

ACUTE TOXICITY

Oral:

Dermal:

Inhalation:

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Mild irritant (rabbit)

Eye Irritation: Mild to moderate irritant (rabbit)

Sensitizer: Positive skin sensitization in guinea pigs

4. FIRST AID MEASURES

Eye: Flush eyes with plenty of water. Get medical attention if irritation persists.

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

Ingestion: Due to the product form, ingestion is unlikely, but if ingestion should occur, give 1-2 glasses of water to drink and induce vomiting by sticking finger down the throat. Repeat until vomitus is clear. Do not induce vomiting in an unconscious individual.

Inhalation: Remove victim to fresh air.

Note to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

NFPA Rating: Health: 0 Fire: 2 Reactivity: 0

Flammability Class: Combustible liquid (active ingredient)

Flash Point: 182°F/84°C

Explosive Limits (% of Volume): Not known

Extinguishing Media: Water, Foam, CO₂, Dry Chemical

Special Protective Equipment: Firefighters should wear full protective equipment including self-contained breathing apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow firefighting water to escape into waterways or sewers.

Combustion Products: None known

Unusual Fire/ Explosion Hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken: Due to the product form, the possibilities of a spill are remote, but should one occur, sweep up spill and place in trash collection for disposal.

Absorbents: Due to product form, absorbents should not be necessary. If mixed with a liquid, absorb with clay granules, sawdust, dirt or equivalent.

Incompatibles: None known

7. HANDLING AND STORAGE

Handling: Do not activate station until ready to use. The station may be placed in any position. Do not place in areas accessible to children. Do not place in food contact areas or storage areas for dishes, silverware, and cooking utensils in domestic kitchens and dining areas.

Storage: Store in cool area away from children.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure Limits: Not established

Ventilation: Use with adequate ventilation.

Personal Protective Equipment: Under normal use conditions, no PPE is required. If excessive exposure is anticipated, users may want to wear gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear, round, plastic station with a faint fruity odor.

Boiling Point: Not known

Melting Point: Not applicable

Vapor Pressure (mm Hg): Less than 1 at 25°C

Vapor Density (Air = 1): Not known

Specific Gravity: 0.89 (H₂O=1)

Bulk Density: 7.4 lbs/gal

Solubility: .54 ppm

Evaporation Rate: Less than butyl acetate

pH: Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Not reactive

Incompatibility with

Other Materials: None known

Decomposition Products: None known

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

In a 90-day subchronic feeding study in rats, the NOEL was 50 mg/kg/day. Changes in body weight and organ weights were observed at higher dose levels. Maximum tolerated dose (MTD) was suggested to be between 250 and 1,000 mg/kg/day. No immunotoxic effects were observed in a study in mice when (S)-Hydroprene was fed (diet) at dose levels up to and including 1,200 mg/kg/day, continuously for 30 days.

DEVELOPMENTAL/ REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]

Parental reproductive performance in rats remained unaffected up to a dose level of 7,500 ppm, when evaluated in a 2-generation reproduction/toxicity study. Histologically, all females of 7,500 ppm dose group had cytoplasmic vacuolation in the ovaries and regression of corpora lutea, but without affecting reproductive performance. The NOEL for pup development was 1,500 ppm. No teratogenic or fetotoxic effects were observed in rats when pregnant animals were exposed (gavage) to (S)-Hydroprene at levels up to 1,000 mg/kg/day (highest dose tested) during days 6 to 15 of gestation. NOEL for maternal toxicity was 1,000 mg/kg/day. Minor skeletal anomalies observed at lower dose levels were absent in the high dose animals, indicating an observation unrelated to the dose treatment.

MUTAGENICITY [Specific to Active Ingredient(s)]

(S)-Hydroprene has been found negative for mutagenicity potential. It has tested negative in: 1) Ames Test, 2) in vivo cytogenetic assay, 3) micronucleus test (in vivo), and in 4) test for DNA effects - UDS in rats (in vitro).

OTHER

U.S. EPA has evaluated other similar product's toxicity as part of the U.S. registration process. EPA requires extensive toxicity tests be performed before any chemical is approved for use. Based on their review of test results, they have determined that no significant risk to users, the public, or the environment exists when this product is used as indicated on the product label.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE (Active Ingredients Only)

Hydrolysis: Not available

Photolysis: Not available

Soil half life: Not available

Water solubility: <2 ppm, emulsifies in water.

ECOTOXICITY (Active Ingredients Only)

Acute Toxicity: fish: Not available

aquatic invertebrates: Not available

13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product may be wrapped and placed in trash collection.

14. TRANSPORTATION INFORMATION

DOT49CFR Description: Not regulated under D.O.T.

Freight Classification: Insecticides, N.O.I. o/t poison, NMFC 1-102120

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated

RCRA: Not regulated as hazardous

SARA 311/ 312 HAZARD CATEGORIES

Immediate Health: Yes (irritation)

Delayed Health: No

Fire: Yes

Sudden Pressure: No

Reactivity: No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.

4 Delta Dust



MSDS Number: 000000000052

DELTADUST Insecticide

MSDS Version 2.4

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name DELTADUST Insecticide
Chemical Name
Synonym
MSDS Number 52
Chemical Family Mixture
Chemical Formulation Mixture
EPA Registration No. 432-772
Canadian Registrat. No.

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

For Product Use Information: (800)331-2867 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF)
 For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF)
 For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Deltamethrin	52918-63-5	0.0500	
Crystalline Silica (Quartz)	14808-60-7	3.0000	

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview

Caution! Keep out of the reach of children. Hazards to humans and domestic animals. May be harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. This product is extremely toxic to fish and aquatic invertebrates.

Physical State Solid powder
Odor Very faint indeterminate to chalk-like odor
Appearance White

Material Safety Data Sheet

DELTADUST Insecticide

MSDS Number: 000000000052
MSDS Version 2.4

Routes of Exposure	Skin contact.
Immediate Effects	
Eye	Non-irritating.
Skin	May be harmful if absorbed through skin. May cause a transient, localized parasthesia, characterized by tingling, burning or numbness sensation in some individuals.
Chronic or Delayed Long-Term	No known chronic effects.

SECTION 4. FIRST AID MEASURES

Skin	Wash with plenty of soap and water. Get medical attention immediately if irritation persists. Cold cream or a moisturizing cream has been successful in diminishing the sensations associated with localized paresthesia.
-------------	---

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	Not applicable
Suitable Extinguishing Media	Carbon dioxide (CO2), Dry chemical, Foam, Water
Fire Fighting Instructions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal	Sweep up or shovel into approved waste disposal container. Dispose of with chemical waste.
-----------------------------	--

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Avoid contact with skin, eyes and clothing.
Storing Procedures	Do not contaminate water, food, or feed by storage or disposal. Store in original container. Keep in a locked storage area. Keep in a dry, cool place. Keep out of the reach of children.
Work/Hygienic Procedures	Wash thoroughly with soap and water after handling.

Material Safety Data Sheet

DELTADUST Insecticide

MSDS Number: 000000000052

MSDS Version 2.4

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection Safety glasses or Goggles

Body Protection Chemical-resistant gloves (Neoprene, Nitrile, PVC)

Exposure Limits

Crystalline Silica (Quartz)	14808-60-7	NIOSH	REL	0.05 mg/m3
		Form of Exposure	Respirable dust.	
		OSHA Z1A TWA		0.1 mg/m3
		Form of Exposure	Respirable dust.	
		US CA OEL TWA PEL		0.1 mg/m3
		Form of Exposure	Respirable dust.	
		US CA OEL TWA PEL		0.3 mg/m3
		Form of Exposure	Total dust.	
		ACGIH TWA		0.05 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White

Physical State Solid powder

Odor Very faint indeterminate to chalk-like odor

Material Safety Data Sheet

DELTADUST Insecticide

MSDS Number: 000000000052
MSDS Version 2.4

Density 55.5 lbs/ft³ (fluffed)
105.4 lbs/ft³ (compacted)

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable

Hazardous Polymerization (Conditions to avoid) Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50: > 5,050 mg/kg

Acute Dermal Toxicity LD50: > 5,050 mg/kg

Acute Inhalation Toxicity LC50: > 26.1 mg/l 4 h
LC50: > 100 mg/l 1 h

Skin Irritation Slightly irritating

Eye Irritation Non-irritating.

Sensitization Negative

Assessment Carcinogenicity

ACGIH

Crystalline Silica (Quartz) 14808-60-7 Group A2

NTP

Crystalline Silica (Quartz) 14808-60-7

IARC

Deltamethrin 52918-63-5 3

OSHA

None

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwaters.

Material Safety Data Sheet

DELTADUST Insecticide

MSDS Number: 000000000052
MSDS Version 2.4

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.
Container Disposal	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 Homeowners: Do not reuse empty container. Wrap container in several layers of newspaper and discard in trash.
RCRA Classification	Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

EPA Registration No. 432-772

TSCA list

Crystalline Silica (Quartz) 14808-60-7

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the state of California to cause cancer.	Crystalline Silica (Quartz)	14808-60-7
--	-----------------------------	------------

US State right-to-know ingredients

Crystalline Silica (Quartz)	14808-60-7	IL, MA, MN, PA
-----------------------------	------------	----------------

Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

Crystalline Silica (Quartz)	14808-60-7
-----------------------------	------------

Material Safety Data Sheet

DELTADUST Insecticide

MSDS Number: 000000000052

MSDS Version 2.4

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

Deltamethrin

R Phrases

52918-63-5 Toxic Dangerous for the environment
Also toxic by inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases

Keep locked up and out of the reach of children. Avoid contact with the skin. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

European Inventory of Existing Commercial Substances (EINECS)

Deltamethrin

52918-63-5

Crystalline Silica (Quartz)

14808-60-7

SECTION 16. OTHER INFORMATION

NFPA	Health	Flammability	Reactivity	Others
	1	0	0	A

Reason for revision:

Update name to match label; change components; remove HMIS ratings.

Print Date: 09/15/2003

Supersedes MSDS, which is older than: 09/15/2003

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer AG. Bayer Environmental Science

5 Contract Bait

CONTRAC[®] All-Weather Blox MSDS

ANUFACTURER'S ADDRESS: BELL LABORATORIES, INC. 3699 Kinsman Blvd, Madison, WI 53704	PREPARED BY: PSM/CAR	TELEPHONE NO: (608) 241-0202	EMERGENCY PHONE NOS: Medical (877) 854-2494 Transportation (Spills) (800) 424-9300 CHEMTREC
PRODUCT NAME: CONTRAC[®] All-Weather Blox			
USE: Anticoagulant Rodenticide	BAIT FORM: Formulated Dry Bait		EPA REGISTRATION NO: 12455-79

SECTION I. HAZARDOUS INGREDIENTS

INGREDIENT NAME	% BY WEIGHT	CURRENT TLV
Bromadiolone [3-[3-(4'-Bromo-[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-1-benzopyran-2-one] CAS No. 28772-56-7	0.005 %	N/A

This product contains no components subject to the reporting requirements of Section 313 of the Superfund Amendment and Reauthorization Act (SARA) of 1986

SECTION II. PHYSICAL DATA

APPEARANCE: Polygonal Block	COLOR: Blue	ODOR: Sweet, grain-like	SPECIFIC GRAVITY: 0.629 gm/cc
VAPOR DENSITY: N/A	MELTING POINT: N/A	WATER REACTIVITY: N/A	EVAPORATION RATE: N/A
VAPOR PRESSURE: N/A	BOILING POINT: N/A	SOLUBILITY: Not soluble in water	BULK DENSITY: N/A

SECTION III. FIRE AND EXPLOSION DATA

FLASH POINT (Method Used): N/A	FLAMMABLE LIMIT: Upper Limit: N/A Lower Limit: N/A	AUTOIGNITION TEMP: N/A
EXTINGUISHING MEDIA: Extinguish with water, foam or inert gas.		
SPECIAL FIREFIGHTING PROCEDURES: Firefighters should be equipped with protective clothing and self-contained breathing apparatus.		
UNUSUAL FIRE OR EXPLOSION HAZARDS: None		

SECTION IV. REACTIVITY HAZARD DATA

STABILITY: Stable	CONDITIONS TO AVOID: None
POLYMERIZATION: Will not occur	CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): Strongly alkaline materials	HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

SECTION V. TOXICITY DATA

LD50, ORAL (INGESTION): >5000 mg/kg (rats)	LD50, DERMAL (SKIN CONTACT): > 5001 mg/kg (rats)	LC50, INHALATION: N/A
EYE IRRITATION: None (rabbits)	SKIN IRRITATION: None (rabbits)	DERMAL SENSITIZATION: Not considered a Sensitizer

CONTRAC® All-Weather Blox MSDS

SECTION VI. HEALTH HAZARDS

PRIMARY ROUTE OF ENTRY:

Ingestion

SIGNS & SYMPTOMS OF EXPOSURE:

Nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

EMERGENCY FIRST AID PROCEDURES:

Eyes: Flush with cool water for at least 15 minutes. If irritation develops, obtain medical assistance.

Skin: Wash with soap and water.

Ingestion: Call physician or emergency phone number immediately. Do not give anything by mouth or induce vomiting unless instructed by physician.

Inhalation: None.

NOTE TO PHYSICIAN: If ingested, administer Vitamin K₁ intramuscularly or orally as indicated by bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

SECTION VII. CONTROL AND PROTECTIVE MEASURES

RESPIRATOR TYPE:

Not required

EYE PROTECTION:

Not required

GLOVES (Recommended):

Rubber Gloves

VENTILATION:

Not required

OTHER PROTECTIVE MEASURES:

Not required

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

HEALTH: 1 (Caution)

FIRE: 0 (Will not burn)

REACTIVITY: 0 (Stable)

SPECIFIC HAZARD: None

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATINGS:

HEALTH: 2 (Moderate)

FLAMMABILITY: 0 (Minimal)

REACTIVITY: 0 (Minimal)

PROTECTIVE EQUIPMENT: B

SECTION VIII. SPILL OR LEAK PROCEDURES

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

Sweep up spilled material, place in properly labeled container for disposal or re-use.

WASTE DISPOSAL METHOD:

Wastes resulting from use may be disposed of on-site or at an approved waste disposal facility. Dispose of all wastes in accordance with all Federal, state and local regulations.

SECTION IX. SPECIAL PRECAUTIONS AND STORAGE DATA

STORAGE TEMPERATURE:

Room temperature

AVERAGE SHELF LIFE:

Bait is stable for a minimum of 1 year when stored at room temperature.

SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE):

Avoid exposure to light and extreme humidity

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool, dry place inaccessible to children, pets and wildlife. Keep container tightly closed when not in use. Avoid contamination of lakes, streams and ponds by use, storage or disposal. Wash thoroughly with soap and water after handling.

SECTION X. SHIPPING DATA

DOT SHIPPING NAME:

None required

DOT HAZARD CLASSIFICATION:

Non-hazardous

DOT LABELS REQUIRED:

None required

FREIGHT CLASSIFICATION:

LTL Class 60

WARRANTY: The information provided in this Material 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 relevant to their particular use.

6 Avert Gel Bait



The Chemical Company

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 1/8
(30472242/SDS_GEN_US/EN)

1. Product and Company Identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

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

Synonyms: Abamectin B1

2. Hazards Identification

Emergency overview

CAUTION:
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
Wash thoroughly after handling.

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. Relatively nontoxic after short-term skin contact.

Irritation / corrosion:

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

Sensitization:

Skin sensitizing effects were not observed in animal studies.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
-------------------	----------------------	----------------------

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 2/8
(30472242/SDS_GEN_US/EN)

71751-41-2	0.05 %	Abamectin
	99.95 %	Proprietary ingredients

4. First-Aid Measures

General advice:

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

If inhaled:

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

If on skin:

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

If in eyes:

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

If swallowed:

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

Note to physician

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

5. Fire-Fighting Measures

Flash point: not applicable

Suitable extinguishing media:

dry extinguishing media, 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.

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.

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 3/8
(30472242/SDS_GEN_US/EN)

Environmental precautions:

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

Cleanup:

Dike spillage. Ensure adequate ventilation. Pick up with inert absorbent material (e.g. sand, earth etc.). 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.

For residues: Dampen, pick up mechanically and dispose of.

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. 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 incompatible substances. Segregate from foods and animal feeds.

Storage stability:

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

8. Exposure Controls and Personal Protection

Advice on system design:

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

Personal protective equipment

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.

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 4/8
(30472242/SDS_GEN_US/EN)

Hand protection:

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

Eye protection:

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

Body protection:

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

General safety and hygiene measures:

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

9. Physical and Chemical Properties

Form:	paste	
Odour:	mild, musty	
Colour:	brown	
pH value:	approx. 6.7	(1 %(m))
freezing range:	< 20 °C	
Vapour pressure:	not applicable	
Density:	1.05 g/cm3	(20 °C)
Viscosity, dynamic:	not applicable	
Solubility in water:	slightly soluble	

10. Stability and Reactivity

Conditions to avoid:

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

Substances to avoid:

caustics

Hazardous reactions:

The product is chemically stable.

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

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

No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:

Not an oxidizer.

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 5/8
(30472242/SDS_GEN_US/EN)

11. Toxicological information

Acute toxicity

Oral:

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

Inhalation:

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

Dermal:

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

Irritation / corrosion:

Skin:

Information on: Abamectin
Species: rabbit
Result: non-irritant

Eye:

Information on: Abamectin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405

Sensitization:

Information on: Abamectin
Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406

Genetic toxicity

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

Carcinogenicity

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

Reproductive toxicity

Information on: Abamectin
The results of animal studies suggest a fertility impairing effect with high doses.

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 6/8
(30472242/SDS_GEN_US/EN)

Development:

Information on: Abamectin

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

Other Information:

Misuse can be harmful to health.

12. Ecological Information

Fish

Information on: Abamectin

Acute:

OECD 203; ISO 7346; 92/69/EEC, C.1 Flow through.

Oncorhynchus mykiss/LC50 (96 h): 0.0087 mg/l

Aquatic invertebrates

Information on: Abamectin

Acute:

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (48 h): 0.0016 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

Land transport

USDOT

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18
Version: 1.0

Page: 7/8
(30472242/SDS GEN US/EN)

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains ABAMECITIN)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains ABAMECITIN)

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

Recommended use: insecticide

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

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

Safety Data Sheet

AVERT ROACH GEL BAIT FORMULA 3

Revision date : 2009/12/18

Page: 8/8

Version: 1.0

(30472242/SDS_GEN_US/EN)

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.

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

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

END OF DATA SHEET

7 Kicker

Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091
MSDS Version 2.1

Routes of Exposure	Inhalation and ingestion. Eye and skin contact.
Immediate Effects	
Eye	Moderately irritating
Skin	Causes moderate skin irritation.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.
Chronic or Delayed Long-Term	See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide.
Medical Conditions Aggravated by Exposure	None known
Signs and Symptoms	May cause gastrointestinal effects such as nausea, vomiting and diarrhea. Ingestion of large quantities can result in nervous system effects such as dizziness, loss of coordination, tremors and loss of consciousness. Symptoms usually regress with no long lasting effects.

SECTION 4. FIRST AID MEASURES

Eye	Flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin	Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention immediately if irritation persists.
Ingestion	Call a physician or Poison Control Center. Do not induce vomiting unless told to do so by a poison control center or doctor. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.
Inhalation	Remove victim to fresh air. Apply artificial respiration if indicated.
Note to Physician	<p>This product contains a pyrethroid and a petroleum solvent. If ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.</p> <p>Do not administer milk, cream or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.</p>

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	62 °C / 144 °F
--------------------	----------------

Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091
MSDS Version 2.1

Method: Tagliabue Closed Cup

Suitable Extinguishing Media

carbon dioxide (CO₂), dry chemical, foam, water

Fire Fighting Instructions

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal

Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

SECTION 7. HANDLING AND STORAGE

Handling Procedures

Avoid breathing spray mist. Do not get in eyes. Avoid getting material on clothing.

All food processing surfaces should be removed or covered during treatment, or thoroughly cleaned before using. When using this product in these areas, apply only when facility is not in operation.

Storing Procedures

For Containers Larger than one Gallon: Store upright at room temperature. Avoid exposure to extreme temperatures. Do not use or store near heat or open flame.

Container One Gallon and Smaller: Store in original container. Keep in a dry, cool place. Keep out of reach of children and domestic animals.

Work/Hygienic Procedures

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.

When using in an enclosed area, do not remain in treated area. Ventilate the area after treatment is completed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection

splash goggles or face-shield

Body Protection

Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils Long-sleeved shirt and long pants shoes plus socks

Respiratory Protection

Wear mask or respirator of a type recommended by the U.S. Bureau of Mines to

Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091
MSDS Version 2.1

Other Information PERCENT VOLATILES: 25

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	extreme temperatures
Incompatibility	strong acids oxidizers
Hazardous Polymerization (Conditions to avoid)	Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Male Rat: LD50: 4,500 mg/kg Female Rat: LD50: 4,900 mg/kg
Acute Dermal Toxicity	LD50: > 2,000 mg/kg
Acute Inhalation Toxicity	LC50: > 5 mg/l 4 h LC50: > 20 mg/l 1 h for DOT purposes
Skin Irritation	Moderately irritating
Eye Irritation	Irritating Non-corrosive.
Sensitization	Negative

The acute toxicity data is taken from Pyrenone Crop Spray (432-1033); which contains 6% Pyrethrins and 60% Piperonyl Butoxide.

Chronic Toxicity In a recent study, marginally higher incidences of benign thyroid, parathyroid, ovary, and liver tumors were observed in rats and in lungs of mice following lifetime high doses exposures to pyrethrum.

Marginally higher incidences of benign liver tumors in mice were observed in mice following lifetime high dose exposures to piperonyl butoxide.

The significance of these observations is questionable and under review. The doses at which tumors were observed for both pyrethrum and piperonyl butoxide greatly exceeded potential human exposure from labeled uses.

Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091
MSDS Version 2.1

Assessment Carcinogenicity

ACGIH

Pyrethrin

8003-34-7

Group A4

NTP

None

IARC

Piperonyl butoxide

51-03-6

3

OSHA

None

Teratogenicity

There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits for either pyrethrum or piperonyl butoxide. They are not considered to be teratogenic.

Mutagenicity

Pyrethrum was not found to be genotoxic and did not damage DNA in any study conducted (Ames mutagenicity assay, chromosome aberration in Chinese hamster ovaries (CHO) cells, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

PBO was not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberration in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

This pesticide is extremely toxic to fish and other aquatic organisms, including crab and shrimp. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas.

Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091

MSDS Version 2.1

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

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

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of at an approved waste disposal facility.

Container Disposal

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.

RCRA Classification

Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Environmentally Hazardous Substance, n.o.s. (Pyrethrins)

HAZARD CLASS: 9, PG III

DOT IDENTIFICATION NUMBER: UN3082

DOT SHIPPING LABEL: Class 9

ADDITIONAL SHIPPING PAPER DESCRIPTIONRQ (Pyrethrins)

NOTE: This product is not regulated by DOT in quantities less than 2 gallons.

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No.

432-1145

TSCA list

Piperonyl butoxide

51-03-6

Isoparaffinic Petroleum Solvent

64742-47-8

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

Piperonyl butoxide

51-03-6

1.0%

US States Regulatory

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

Material Safety Data Sheet

KICKER®

MSDS Number: 000000000091
MSDS Version 2.1

harm.

US State right-to-know ingredients

Pyrethrin
Piperonyl butoxide

8003-34-7
51-03-6

CA, CT, IL, MN, NJ, PA, RI
NJ

Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

Pyrethrin
Piperonyl butoxide
Isoparaaffinic Petroleum Solvent

8003-34-7
51-03-6
64742-47-8

Environmental

CERCLA

Pyrethrin

8003-34-7

1 lbs

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances (EINECS)

Pyrethrin
Piperonyl butoxide
Isoparaaffinic Petroleum Solvent

8003-34-7
51-03-6
64742-47-8

SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
HMIS	1	2	0	B
NFPA	1	2	0	

REVISED SECTIONS:

MSDS REVISION INDICATOR: Company name change.

Print Date: 12/09/2002

Supersedes MSDS, which is older than: 12/04/2002

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer AG. Bayer Environmental Science

S Victor Glue Board

MATERIAL SAFETY DATA SHEET

SECTION I - MANUFACTURER'S INFORMATION

MANUFACTURER'S NAME	WOODSTREAM CORPORATION 69 NORTH LOCUST STREET LITITZ, PA 17543
EMERGENCY TELEPHONE NUMBER	800-424-9300
TELEPHONE NUMBER FOR INFORMATION	717-626-2125

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

M309 Mouse and Roach Glue Traps and Monitors
THIS PRODUCT WOULD NOT BE CONSIDERED TOXIC AS DEFINED BY THE FEDERAL HAZARDOUS SUBSTANCE ACT OR THE U.S. DEPARTMENT OF TRANSPORTATION.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT	N/A
VAPOR PRESSURE (mmHg)	N/A
VAPOR DENSITY (Air = 1)	HEAVIER THAN AIR
SPECIFIC GRAVITY (H₂O = 1)	0.875 (GLUE)
MELTING POINT	150°F (GLUE)
EVAPORATION RATE (BUTYL ACETATE = 1)	N/A
SOLUBILITY IN WATER	N/A
APPEARANCE	CLEAR TO LIGHT YELLOW SOLID (GLUE) CARDBOARD W/ RELEASE PAPER (TRAP)

ODOR	PEANUT BUTTER – MOUSE BOARDS
	BANANA – ROACH BOARDS

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	400°F
FLAMMABLE LIMITS	N/A
LEL	N/A
UEL	N/A
EXTINGUISHING MEDIA	CO ₂ CHEMICAL FOAM
SPECIAL FIRE-FIGHTING PROCEDURES	TO PREVENT SPLATTERING AND SPREADING OF FIRE, DO NOT POUR WATER ON MOLTEN MATERIAL.
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE

SECTION V - REACTIVITY DATA

STABILITY	STABLE
CONDITIONS TO AVOID	N/A
INCOMPATIBILITY (MATERIALS TO AVOID)	N/A
HAZARDOUS DECOMPOSITION OR BY PRODUCTS	N/A
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY:	
INHALATION?	NO
SKIN?	NO
INGESTION?	NO
HEALTH HAZARDS (ACUTE AND CHRONIC)	NONE
CARCINOGENICITY:	
NTP?	N/A

IARC MONOGRAPHS?	N/A
OSHA REGULATED?	N/A
SIGNS AND SYMPTOMS OF EXPOSURE	MAY PRODUCE IRRITATING VAPORS IF BURNED.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	NONE KNOWN
EMERGENCY AND FIRST AID PROCEDURES	REMOVE TO FRESH AIR. IN THE EVENT OF BURNS CAUSED BY SKIN CONTACT WITH MOLTEN MATERIAL, TREAT USING THERMAL BURN PROCEDURES.
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE	
STEPS TO BE TAKEN IN EVENT MATERIAL IS RELEASED OR SPILLED	N/A
WASTE DISPOSAL METHOD	BURY WITH TRASH IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	STORE IN A COOL, DRY AREA AWAY FROM FOOD AND FEED. REMOVE GLUE FROM SKIN, ETC., WITH VEGETABLE OIL.
OTHER PRECAUTIONS	KEEP AWAY FROM CHILDREN AND PETS.
SECTION VIII - CONTROL MEASURES	
RESPIRATORY PROTECTION (SPECIFY TYPE)	N/A
VENTILATION	N/A
LOCAL EXHAUST	N/A

MECHANICAL (GENERAL)	N/A
SPECIAL	N/A
OTHER	N/A
PROTECTIVE GLOVES	N/A
EYE PROTECTION	N/A
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	N/A
WORK/HYGIENIC PRACTICES	REMOVE FROM SKIN WITH VEGE- TABLE OIL OR MILD SOLVENT.

Date MSDS Prepared: 5/20/01

Supersedes: 4/17/01

Contact: Nathan P. Ehresman Regulatory Affairs, Woodstream Corp.

Close Window

9 Gentrol Aerosol

MATERIAL SAFETY DATA SHEET
Gentrol Aerosol

Manufacturer: Wellmark International

Address: 1501 East Woodfield Road, Suite 200-West Schaumburg, IL 60173

Emergency Phone: 1-800-248-7763

Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Gentrol Aerosol

Chemical Name/Synonym: (S)-Hydroprene: (Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate

Chemical Family: Isoprenoid

Formula: C17 H30 O2

EPA Registration No.: 2724-484

RF Number: 9707

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
(S)-Hydroprene: (Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate)	65733-18-8	0.36%	
Inert ingredients (non-hazardous and/or trade secret):		79.64%	
Propane	74-98-6	20.00	1800 mg/m3 (OSHA)Asphyxia nt (ACGIH)

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Intoxication not reported. Probable symptoms of over exposure would be nausea, diarrhea, vomiting, or G.I. tract irritation.

PRIMARY ROUTE OF ENTRY Dermal/Eye: Yes. Oral: No. Inhalation: Yes.

ACUTE TOXICITY

Oral: LD₅₀ (rat): >34,000 mg/kg (highest dose level tested). Based on (S-Hydroprene).

Dermal: LD₅₀ (rabbit): >5,000 mg/kg (highest dose level tested). Based on (S-Hydroprene).

Inhalation: LC₅₀ (rat) : >5mg/l (highest dose level tested). Based on (S-Hydroprene).

OTHER TOXICOLOGICAL INFORMATION: Based on S-Hydroprene

Skin Irritation: Non-irritating (rabbit).

Eye Irritation: Non-irritating (rabbit).

Sensitizer: Not considered a sensitizer.

4. FIRST AID MEASURES

Eye: Hold eyes 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 eyes.

Skin: Take off contaminated clothing. Wash skin immediately with soap and water for 15-20 minutes.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting.

Inhalation: Move individual to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health:** 1 **Fire:** 4 **Reactivity:** 0

Flammability Class: Level I Aerosol.

Flash Point: Unknown.

Explosive Limits (% of Volume): Lower: 2, Upper: 9.

Extinguishing Media: Water fog, foam, CO2.

Special Protective Equipment: Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow fire fighting water to escape into water-ways or sewers.

Combustion Products: Carbon monoxide.

Unusual Fire/Explosion Hazards: Contents under pressure.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Do not allow spill to enter drainage systems or waterways. Ventilate area. Absorb spill with absorbent material, and place in a container for disposal.

Absorbents: Clay granules, sawdust, dirt or equivalent.

Incompatibles: Strong acids, alkalies, strong oxidizers.

7. HANDLING AND STORAGE

Handling: Avoid breathing mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. When used in commercial food processing, storage, preparation or serving areas, or in the house, all processing surfaces and utensils should be covered during treatment, or thoroughly washed before use. Cover exposed food. Do not apply while processing, preparation or serving is underway. Do not smoke while using product. Do not use this product in or on electrical equipment, due to possibility of shock hazard.

Storage: Do not contaminate water, food, or feed by storage. Store in cool area away from children. Do not use or store near heat or open flame. Contents under pressure. Do not puncture or incinerate.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Propane = 1800 mg/m³ (OSHA PEL), Asphyxiant (ACGIH TLV).

Ventilation: Use adequate ventilation.

Personal Protective Equipment: If prolonged exposure is anticipated, it is recommended for users and handlers to wear a MSHA/NIOSH approved pesticide respirator, impervious gloves, goggles and other appropriate clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Yellowish white liquid (under pressure).

Boiling Point: -42C to 200C.

Melting Point: Not applicable.

Vapor Pressure (mm Hg): 40 psig.

Vapor Density (Air = 1): Unknown.

Specific Gravity: 0.83 (H₂O=1).

Bulk Density: Not applicable.

Solubility: Appreciable.

Evaporation Rate: Unknown.

pH: 9.0.

10. STABILITY AND REACTIVITY

Stability: Stable.

Reactivity: Non reactive.

Incompatibility w/ Other Materials: Strong acids, alkalies, strong oxidizers.

Decomposition Products: Carbon oxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

In a 90-day subchronic feeding study in rats, the NOEL was 50 mg/kg/day. Changes in body weight and organ weights were observed at higher dose levels. Maximum tolerated dose (MTD) was suggested to be between 250 and 1,000 mg/kg/day. No immunotoxic effects were observed in a study in mice when (S)-Hydroprene was fed (diet) at dose levels up to and including 1,200 mg/kg/day, continuously for 30 days.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]

Parental reproductive performance in rats remained unaffected up to a dose level of 7,500 ppm, when evaluated in a 2-generation reproduction/toxicity study. Histologically, all females of 7,500 ppm dose group had cytoplasmic vacuolation in the ovaries and regression of corpora lutea, but without affecting reproductive performance. The NOEL for pup development was 1,500 ppm. No teratogenic or fetotoxic effects were observed in rats when pregnant animals were exposed (gavage) to (S)-Hydroprene at levels up to 1,000 mg/kg/day (highest dose tested) during days 6 to 15 of gestation. NOEL for maternal toxicity was 1,000 mg/kg/day. Minor skeletal anomalies observed at lower dose levels were absent in the high dose animals, indicating an observation unrelated to the dose treatment.

MUTAGENICITY [Specific to Active Ingredient(s)]

(S)-Hydroprene is not a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Based on(S)-Hydroprene]

Hydrolysis: Not available.

Photolysis: Not available.

Soil half life: Not available.

Water solubility: < 2 ppm emulsifies in water.

ECOTOXICITY [Based on (S)-Hydroprene]

Acute Toxicity: Fish: Not available; Aquatic invertebrates: Not available.

13. DISPOSAL CONSIDERATIONS

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

14. TRANSPORT INFORMATION

DOT49CFR Description: Consumer Commodity ORM-D.

Freight Classification: Spray Insecticides.

15. REGULATORY INFORMATION

CERCLA (Superfund): N/A.

RCRA: Regulated due to ignitability.

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritation).

Delayed Health: No.

Fire: Yes.

Sudden Pressure: Yes.

Reactivity: No.

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.

Gentrol Aerosol

10 Wasp Freeze

MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
3568 TREE COURT IND. BLVD.
ST. LOUIS, MO 63122
EFFECTIVE DATE: JULY 26, 2000

Prescription Treatment® brand

WASP-FREEZE®

Wasp & Hornet Killer

Formula 1

(800) 777-8570 (8:00 A.M. to 4:30 P.M. CST)

EMERGENCY PHONE NUMBERS:

MEDICAL: (800) 225-3320 PROSAR

TRANSPORTATION: (800) 424-9300 CHEMTREC

EPA REG. NO.: 499-362

SECTION 1: HAZARDOUS INGREDIENTS

Active Ingredients:	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL
Phenothrin: 0.120% (CAS #26002-80-2) [3-phenoxybenzyl d-cis and trans 2,2-Dimethyl-3-(2-methyl-1-propenyl) cyclopropane carboxylate]	NE	NE	NE
D-Trans Allethrin: 0.129% (CAS #28057-48-9)	5mg/m ³ NE	NE	NE
Solvents & Propellants: 99.751%			
Carbon Dioxide: (CAS #124-38-9)	5000 ppm	3000 ppm	5000 ppm
Isoparaffinic Petroleum Solvent: (CAS #64742-47-8)	NE	NE	500 ppm

All components of this product are listed or excluded from listing on the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SECTION 2: PHYSICAL DATA

Boiling Point: NA	Evaporation Rate: NA
Specific Gravity (H₂O = 1): 0.800	Solubility in Water: Negligible
Vapor Pressure in Aerosol Container: 100 psig @ 70°F	Appearance and Odor: Pale yellow color with solvent odor.
Percent Volatile: ~100%	
Vapor Density: NA	

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flashpoint: 144°F (TCC) (Aerosol Concentrate)
Flammable Limits: NA
NFPA 308 Flammability: Level 3 Aerosol
Extinguishing Media: CO₂; Dry Chemical; Foam
Special Firefighting Procedures: None required.
Unusual Fire and Explosion Hazards: Contents under pressure. Exposure to temperatures
re 130°F may cause bursting.

SECTION 4: HEALTH HAZARD DATA

Threshold Limit Value: NE		
Routes of Entry:		
Inhalation? Secondary	Skin? Primary	Ingestion? Tertiary
Health Hazard (Acute and Chronic) - Signs and Symptoms of Exposure:		
Eye: May cause eye irritation.		
Skin: Prolonged exposure may cause skin irritation and dermatitis.		
Ingestion & Inhalation: Unlikely due to the product being pressurized and producing particles large enough not to be respirable. High concentrations of the isoparaffinic petroleum solvent (greater than 1000ppm) may cause headache and dizziness, are anesthetic, and may have other central nervous system effects. When used according to label directions, this level will not be attained.		
Carcinogenicity:		
NTP? No	IARC Monograph? No	OSHA Regulated? No

Emergency and First Aid Procedures:

If Swallowed: Call a doctor and get medical attention. Do not induce vomiting. Do not give
anything by mouth to an unconscious person. Avoid alcohol.

If on Skin: Wash with plenty of water. Get medical attention.

If in Eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably
mouth-to-mouth. Get medical attention.

Medical Conditions Generally Aggravated by Exposure: None known.

SECTION 5: REACTIVITY DATA

Stability: Indefinite when used according to label directions.
Conditions to Avoid: Do not spray into open flame or onto hot surfaces. Do not store above
130°F.
Incompatibility (Materials to Avoid): None.
Hazardous Decomposition Products: Thermal decomposition in open flame may result in
carbon dioxide.
Hazardous Polymerization: Will not occur.

SECTION 6: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: If container begins to leak (through
puncture, etc.), allow it to discharge completely in well ventilated area, then dispose of in safe
place.

Emergency Telephone Number of Chemtrec: (800) 424-9300
(for transportation spills)

Waste Disposal Method: Container Disposal: This container may be recycled in the few but
growing number of communities where steel aerosol can recycling is available. Before offering
for recycling, empty the can by using the product according to the label (DO NOT PUNC-
TURE!). If recycling is not available, wrap the container and discard in the trash.
In case of spillage this product is subject to reporting requirements of the Comprehensive
Environmental Response, Compensation, and Liability Act (CERCLA).

SECTION 7: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required.

Ventilation: For outdoor use only.

Local Exhaust: NA **Mechanical:** NA

Special: NA **Other:** NA

Protective Gloves: None required.

Eye Protection: None required.

Other Protective Equipment: None required.

SECTION 8: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Hazards to Humans and Domestic Animals:
Harmful if swallowed, inhaled, or if absorbed through the skin. Avoid breathing vapors or
spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water
after handling. Remove contaminated clothing and wash clothing before reuse. *Environmental*
Hazards: This pesticide is highly toxic to fish. 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 by cleaning of equipment or disposal of equipment washwaters. *Physical*
Hazards: Flammable. Contents under pressure. Keep away from heat, sparks and open flame.
Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause
bursting. May cause staining (darkening) of asphalt surfaces and shingles. *Storage:* Store in a
cool area away from heat or open flame.
Other Precautions: For outdoor use only.

SECTION 9: HEALTH RATING INFORMATION (NFPA)

Health - 1 Flammability - 1 Reactivity - 1

SECTION 10: SARA TITLE III/SEC. 313 SUPPLIER NOTIFICATION

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

CAS#	Chemical Name	% by weight
This product contains no Section 313 chemicals above the de minimis concentration levels.		

SECTION 11: DOT SHIPPING INFORMATION

Proper Shipping Name: Consumer Commodity **Hazard Class:** ORM-D

NA - Not Applicable
NE - Not Established
PEL - Permissible Exposure Limit
ACL - Acceptable Ceiling Level
MPC - Maximum Peak Concentration

Product Code: 02-0518 (12 x 17.5 oz.)
Prepared by: Dana M. Thomas

Supersedes 19-0712 dated 10/12/98.

11 Advion Roach Gel



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

Page 1

M0000626 "DuPont" "ADVION" COCKROACH GEL BAIT
Revised 3-JAN-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"ADVION" is a registered trademark of DuPont.

"DuPont" is a trademark of DuPont.

CAS Name : INDOXACARB

Product Use

Insecticide For Use in Residential, Institutional,
Commercial, and Industrial Areas.

Tradenames and Synonyms

INDOXACARB

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)

Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S.
703-527-3887)

Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
INDOXACARB	173584-44-6	0.6
(S)-methyl 7-chloro-2,5-dihydro-2-[[(methoxycarbonyl)[4(trifluoromethoxy) phenyl] amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine- 4a-(3H)-carboxylate		99.4
OTHER INGREDIENTS		

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION. Avoid contact with skin, eyes or clothing.
Wash thoroughly with soap and water after handling.

KEEP OUT OF REACH OF CHILDREN.

Avoid treating areas that are easily accessible to
children and pets.

Potential Health Effects

Based on animal testing, no biologically significant effects are
expected from skin or eye contact or by ingestion.

Carcinogenicity Information

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 a carcinogen.

FIRST AID MEASURES

First Aid

IF ON SKIN OR CLOTHING: No specific intervention is
indicated as the product is not likely to be hazardous to
the skin. Consult a physician if necessary.

IF INHALED: No specific intervention is indicated as the
product is not likely to be hazardous by inhalation.
Consult a physician if necessary.

IF IN EYES: No specific intervention is indicated as the
product is not likely to be hazardous to the eyes. Consult
a physician if necessary.

IF SWALLOWED: No specific intervention is indicated as the
product is not likely to be hazardous by ingestion. Consult
a physician if necessary.

Have the product container or label with you when calling
a poison control center or doctor, or going for treatment.
You may also contact 1-800-441-3637 for emergency
medical treatment information.

FIRE FIGHTING MEASURES

Flammable Properties

Flashpoint: >100°C

Not a fire or explosion hazard.

Extinguishing Media

Water, Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

For small spills, use cloth or paper towels and place collected material and towels in appropriate container for disposal.

For larger spills, soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up and transfer to an approved waste container for disposal. After removal of spilled material, wash the affected areas with water and detergent.

HANDLING AND STORAGE

Handling (Personnel)

Do not apply to surfaces that food contacts. Do not allow open foods to contact gel material.

Wash thoroughly with soap and water after handling.

Handling (Physical Aspects)

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

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.

Storage

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

Store in a cool, dry place inaccessible to children and pets.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

No PPE is specified for use when using this product according to label directions; however, avoid contact with skin, eyes and clothing.

Exposure Guidelines

Applicable Exposure Limits

INDOXACARB

PEL (OSHA)	: Particulates (Not Otherwise Regulated)
	15 mg/m ³ , 8 Hr. TWA, total dust
	5 mg/m ³ , 8 Hr. TWA, respirable dust
AEL * (DuPont)	: 1 mg/m ³
	8 & 12 Hr. TWA, Respirable

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Form : Gel
Color : Brown
Odor : Faint, non-descript
Density : 1.141 g/mL @ 22°C
PH : 7.3 (1% solution in water)
Solubility in Water : 0.2 ppm (a.i)

STABILITY AND REACTIVITY

Incompatibility with Other Materials

None reasonably foreseeable.

TOXICOLOGICAL INFORMATION

Animal Data

DuPont Advion Cockroach Gel Bait

Oral LD50: > 5000 mg/kg in female rats

Dermal LD50: > 5000 mg/kg in male/female rats

DuPont Advion Cockroach Gel Bait is not a skin or eye irritant, and is not a skin sensitizer in animal tests.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Note that the following results are based on tests conducted under laboratory conditions using the technical material as the test substance. The technical material used in the tests contained 94.5% of the insecticidally active isomer and inactive isomer in an approximately 75:25 ratio.

(94.5% DPX-MP062 Technical)

AQUATIC TOXICITY:

96 hour LC50 - Bluegill sunfish: 0.90 mg/L.

96 hour LC50 - Rainbow trout : 0.65 mg/L.

48 hour EC50 - Daphnia magna : 0.60 mg/L.

Based on the above results for fish and invertebrates, risk quotients (RQs) were < 0.002 and no levels of concern (LOCs) were exceeded.

AVIAN TOXICITY:

Acute Oral LD50 - Bobwhite Quail : 98 mg/kg.

Acute Dietary LC50 - Bobwhite Quail: 808 ppm

Acute Dietary LC50 - Mallard Duck : >5620 ppm

(ECOLOGICAL INFORMATION - Continued)

Based on the above results for birds, acute RQs were < 0.03 and chronic RQs were < 0.1, and no LOCs were exceeded.

DISPOSAL CONSIDERATIONS

Waste Disposal

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

Do not reuse/refill the gel bait dispenser. Place empty dispensers in trash or offer for recycling if available.

If partially filled: Wrap in newspaper and discard in trash or call your local solid waste authority or 1-888-638-7668 for disposal instructions.

Container Disposal

Do not reuse/refill the gel bait dispenser. Place empty dispensers in trash, offer for recycling, or call your local solid waste authority or 1-888-638-7668 for disposal instructions.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA

Proper Shipping Name : Not Regulated

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-652

OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection
Address : Wilmington, DE 19898
Telephone : 1-888-638-7668

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS

12 Alpine Prescription Treatment

M A T E R I A L S A F E T Y D A T A S H E E T

Prescription Treatment® brand Alpine™ Dust Insecticide

EMERGENCY PHONE NUMBERS:

MEDICAL: 800-225-3320 (Prosar)

TRANSPORTATION: 800-424-9300 (Chemtrec)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Prescription Treatment® brand Alpine™ Dust Insecticide
EPA Reg. No.: 499-527
Product Code(s): 02-0421 (12 x 8 oz)
 02-0422 (4 x 3 lbs)
EPA Signal Word: CAUTION
Distributed by: Whitmire Micro-Gen Research Laboratories, Inc.
 3568 Tree Court Industrial Blvd.
 St. Louis MO 63122-6682

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION INFORMATION

ACTIVE INGREDIENTS (95.25%)	%	CAS NO.
Dinotefuran	0.25	165252-70-0
Diatomaceous Earth (including silicon dioxide, other oxides and moisture)	95.00	7631-86-9

OTHER INGREDIENTS* (4.75%)

* All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

EXPOSURE INFORMATION

MATERIAL	OSHA PEL		ACGIH TLV	
	STEL	TWA	STEL	TWA
Dinotefuran	NE	NE	NE	NE
Diatomaceous Earth (Amorphous Silica – Natural Diatomite)	NE	80 mg/m³	NE	10 mg/m³

SECTION 3. HAZARDS IDENTIFICATION

SIGNIFICANT SYMPTOMS OF EXPOSURE

Eye irritation, coughing, wheezing, difficulty breathing, and upper respiratory tract irritation.

ROUTES OF ENTRY

Primary: Inhalation **Secondary:** Skin **Tertiary:** Ingestion

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame may result in carbon dioxide, water vapor, and may produce oxides of nitrogen.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mist.

SECTION 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Describe any symptoms and follow the advice given.

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

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

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

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

Note to Physician: None

Medical Conditions Generally Aggravated by Exposure: Preexisting lung and respiratory conditions.

Emergency Telephone Number of Prosar: 800-225-3320 (for medical emergencies)

SECTION 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point (TCC): NA

Explosibility Limits in Air (% by volume):

Lower (LEL) = NA Upper (UEL) = NA

NFPA 308 Flammability: NA

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mist.

IN CASE OF FIRE

Extinguisher Media: Carbon Dioxide, Dry Chemical, Water fog, Foam

Special Fire Fighting Procedures: Fire fighting personnel should wear full protective equipment and positive pressure self-contained breathing apparatus (SCBA) approved for firefighting. Contain and isolate runoff for proper disposal. Do not allow runoff to enter watercourse.

SECTION 6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK

Vacuum or dampen with water and sweep up material. Spilled material should be carefully collected and containerized in a manner that produces the least amount of airborne dust. Collect and contain for salvage or disposal. Residual surface material may be removed with towels moistened with water. Wet floors may become extremely slippery in the presence of this dust.

This product contains no Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) listed chemicals. Releases of this product are NOT reportable to the National Response Center.

Emergency Telephone Number of Chemtrec: 800-424-9300 (for transportation spills)

PROTECTIVE EQUIPMENT FOR CLEANUP PERSONNEL

Eyes: Use proper protection – safety glasses are recommended.

Skin: Wear chemical-resistant gloves. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Inhalation: Use of a respirator may be appropriate when working with spills in enclosed or confined spaces or when working in potentially high dust environments. When using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an N prefilter. See 29 CFR 1910.134 for respiratory protection, training, and testing requirements.

WASTE DISPOSAL METHOD

Do not contaminate water, food or feed by storage or disposal of wastes. Take full or leaking containers to a local disposal company for biological treatment or incineration. Review all local, state and federal regulations concerning health and pollution to determine approved disposal procedures. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

SECTION 7. HANDLING AND STORAGE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children. **CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

STORAGE

Do not contaminate water, food or feed. Store in original container in a dry location inaccessible to children.

M A T E R I A L S A F E T Y D A T A S H E E T

Prescription Treatment® brand Alpine™ Dust Insecticide

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Respiratory Protection: None required when used according to label directions. For prolonged exposure or if used in enclosed or confined areas with the potential for high dust exposure, a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with an N prefilter may be used. See 29 CFR 1910.134 for respiratory protection, training, and testing requirements.

Protective Gloves: Chemical-resistant gloves are recommended if prolonged or repeated skin contact is likely. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Eye Protection: Use proper protection — safety glasses are recommended.

Other Protective Equipment: None required

VENTILATION

Local Exhaust: Recommended

Mechanical: None required

Special: None required

Other: Provide adequate ventilation

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine white powder

Solubility in Water: Active ingredient is soluble, the rest is not

Viscosity: NA

Boiling Point: NE

pH: NE

Odor: Characteristic earthy odor

Vapor Pressure: NA

Vapor Density: NA

Melting Point: 1,400°F

Density: 2.2 lbs/ft³

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY

Stability: Indefinite when used according to label directions.

Conditions to Avoid: High heat, Open flame

Incompatibility (Material to Avoid): Acids, Bases, Oxidizers

Hazardous Polymerization: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame will result in carbon dioxide, water vapor, and may produce oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Inhalation

Secondary: Skin

Tertiary: Ingestion

ACUTE

Eyes: Product is mildly irritating to the eyes. Product produced conjunctival irritation, iritis and corneal opacity in albino rabbit eyes, clearing in 7 days.

Skin: Product is slightly irritating to the skin. Acute dermal toxicity LD₅₀ > 5,000 mg/kg (rats). Primary skin irritation index = 0.3 (rabbits); all irritation was clear within 24 hr. Product is not a dermal sensitizer when tested on guinea pigs.

Ingestion: Acute oral toxicity LD₅₀ > 5,000 mg/kg (rats).

Inhalation: Acute inhalation toxicity LC₅₀ > 2.08 mg/L (rats).

CHRONIC/CARCINOGENICITY

Neither this product nor any of its ingredients are classified as carcinogens by the National Toxicity Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

The American Conference of Government Industrial Hygienists (ACGIH) classifies mineral particulates as nuisance dusts. This natural Diatomaceous Earth has measured levels of less than 0.1% crystalline silica as quartz. Levels are, therefore, less than the OSHA concentration limit of 0.1%.

SECTION 12. ECOLOGICAL INFORMATION

This pesticide is toxic to shrimp. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal of container or waste. Dispose of container and waste in accordance with all federal, state and local regulations.

Container Disposal: Nonrefillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available. **If partly filled:** Contact your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!

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

SECTION 14. TRANSPORT INFORMATION

SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

Proper Shipping Description: Pesticide, dry (Not Regulated)

Package Marking: None required

Package Labeling: None required

Certified Packaging: None required

Product in unopened original packaging is compliant with all regulations for ground shipment within the U.S. WMG disclaims any liability for claims or damages that may result from shipment by other means. Packages offered or intended for other modes of transportation are subject to additional requirements. Consult an appropriately trained Shipping Professional before offering for shipment.

SECTION 15. REGULATORY INFORMATION

CERCLA

This product contains no CERCLA listed chemicals.

SARA TITLE III SECTIONS 311/312 HAZARD CLASS

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

Immediate (Acute) Health Hazard

SARA TITLE III SECTION 313 CHEMICALS

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the de minimis concentration level.

CALIFORNIA SAFE DRINKING AND TOXIC ENFORCEMENT ACT (PROP 65)

This product contains a de minimis amount of naturally occurring crystalline silica and arsenic, chemicals known to the state of California to cause cancer.

TSCA

All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SECTION 16. OTHER INFORMATION

NFPA HEALTH RATING INFORMATION

HEALTH - 2 FLAMMABILITY - 0 INSTABILITY - 1

HMIS HAZARD RATING SYSTEM

HEALTH - 1 FLAMMABILITY - 0 PHYSICAL HAZARD - 1

KEY: 4 = Severe
3 = High
2 = Moderate
1 = Slight
0 = Minimal

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.

Questions concerning the safe handling of the product should be referred to the Whitmire Micro-Gen Customer Service Department at 800-777-8570.

NZ Applicable
NL Established

PEL - Permissible Exposure Limit

TLV - Threshold Limit Value

STEL - Short Term Exposure Limit (15 min)

TWA - Time Weighted Average (8 hr)



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.

Effective Date: 03/10/09
Review Date: 03/10/09
Supersedes: 01/25/06
Text ID: 090528-2
Code #: 222-018
Part No.: 19-0287-02

13 Steri-fab

HAZARD CLASSIFICATION

Health 1

Fire 3

Reactivity 0

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements

IDENTITY (As Used on Label and List) STERI FAB		<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>	
Section I			
Manufacturer's Name NOBLE PINE PRODUCTS		Emergency Telephone Number: 800-424-9300 - CHEMTREC	
Address (Number, Street, City, State, and Zip Codes) P.O. BOX 41 CENTUCK STATION		Telephone Number for Information: 914-644-5877	
YONKERS, NY 10710		Date Prepared: 01/01/95	
Section II – Hazardous Ingredients/Identity Information			
Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended % (optional)
ISOPROPANOL	STEL 500 PPM	STEL 500 PPM	60.39
CAS # 67-63-0			
Section III – Physical/Chemical Characteristics			
Boiling Point APPROX.	177°F	Specific Gravity (H2O = 1) LESS THAN	1
Vapor Pressure (mm Hg.) GREATER THAN	59mm	Melting Point	N/A
Vapor Density (AIR = 1) APPROX.	0.60	Evaporation Rate (Butyl Acetate = 1) - LESS THAN	1
Solubility in Water DISPERSIBLE			
Appearance and Odor CRYSTAL CLEAR. SLIGHTLY CLOUDY ON AGITATION. MILD ALCOHOL ODOR			
Section IV – Fire and Explosion Hazard Data			
Flash Point (Method Used) Pen Sky Martens Closed Cup: 83°F	Flammable Limits For Isopropanol Approx	LEL 2.5% By Volume	UEL N/A
Extinguishing Media WATER, DRY CHEMICAL			
Special Fire Fighting Procedures NONE			
Unusual Fire and Explosion Hazards FLAMMABLE UPON APPLICATION OF IGNITION SOURCE			
Section V – Reactivity Data			
Stability	Unstable	Conditions To Avoid N/A	
	Stable	XXX	

Incompatibility (Materials to Avoid)			
Acidic Materials or strong oxidizing agents			
Hazardous Decomposition or Byproducts			
N/A			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XXXX	N/A
Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? Unlikely in application.
Health Hazards (Acute and Chronic) Harmful if swallowed. Avoid inhalation of vapors. Avoid contact with skin and eyes. Wash contaminated skin promptly with soap and warm water. Consult physician if irritation persists.			
Carcinogenicity: NO	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
Signs and Symptoms of Exposure: N/A			
Medical Conditions Generally Aggravated by Exposure N/A			
Emergency First Aid Procedures: Flush eyes or skin with plenty of water for at least 15 minutes. For eyes get medical attention. For inhalation remove from exposure.			
Section VII – Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material is Released or Spilled: Flush area with plenty of water.			
Waste Disposal Method Dilute and discharge in accordance with local, state and Federal regulations.			
Precautions to Be Taken in Handling and Storing Store in cool dry place. Keep containers closed and away from heat or flame.			
Other Precautions Do not use or store near open flame.			
Section VIII – Control Measures			
Respiratory Protection (Specify Type): None required if good ventilation is maintained. If required, OSHA/NIOSH approved breathing apparatus.			
Ventilation	Local Exhaust: Apply in well ventilated area	Special: NONE	
	Mechanical (General): NONE	Other: NONE	
Protective Gloves: None required		Eye Protection: None required – however, use of eye protection is good industrial practice	
Other Protective Clothing or Equipment: NONE		Work/Hygienic Practices: USUAL	
DOT Proper Shipping Name: Not Regulated			

14 In Vade Bio Drain

Material Safety Data Sheet – InVade™ Bio Drain

Section 1: Identification:

Manufacturer: Rockwell Labs Ltd
1512 Taney St., N Kansas City, MO 64116

Product Name: InVade™ Bio Drain

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

Emergency (Spills): Call CHEMTREC
Domestic: 800-424-9300
International: 730-527-3887

Section 2: Hazardous Ingredients:

(Per 29 CFR 1910.1200)

Material: None

CAS No.	%	TWA	STEL
N/A			

HMIS® Ratings:

Health: 0

Flammability: 0

Physical Hazard: 0

Section 3: Composition Information: The product is composed of waste-digesting, non-pathogenic, certified Salmonella and Shigella free, Bacillus bacterial spores, citrus oil, emulsifier, and gelling agent.

Section 4: First Aid Measures: Skin Contact: Wash with soap and water. Ingestion of more than an incidental amount: Contact physician immediately. DO NOT induce vomiting. Rinse mouth with water then drink one glass of water. Eye Contact: Flush with water for 15 minutes. For any persistent irritation, contact a physician. Inhalation: If symptoms result, remove to fresh air.

Section 5: Fire Fighting Measures: Extinguishing Media: carbon dioxide, foam, or dry chemical; Flash Point: N/A; Flame Extension: N/A; Auto Ignition: N/A; DO NOT use water. Smother to exclude air. Wear positive pressure self-contained breathing apparatus approved by NIOSH/MSHA. Smoke may be acrid and fume irritating. Flammability limits in air, % by vol: N/A; Unusual fire or explosion hazards: Fire and explosion hazards are considered minor.

Section 6: Accidental Release Measures: Wipe up and dispose of in proper container. Large spill: contain spill and soak up with absorbent material and place in proper disposal container. Clean the area with detergent and water.

Section 7: Handling and Storage: Store in closed containers between 35 and 95 °F. Avoid freezing.

Section 8: Exposure / Personal Protection: Gloves are recommended. Ventilation: not required; Respirator: use mist-respirator if sprayed in area that is not well-ventilated; Eye protection: Chemical splash goggles recommended.

Section 9: Physical and Chemical Properties: Vapor Pressure: not known; Vapor Density: not known; pH: 3.8-4.5; Viscosity: not known; Percent Volatiles by Volume (25°C): 7-10%; Appearance: orange, translucent liquid; Odor: fresh oranges; Specific Gravity: 1.05; Solubility: emulsifies in water; Evaporation Rate: similar to water

Section 10: Stability and Reactivity: Stability: stable; Material Incompatibility: strong acids, oxidizers, and bactericidal compounds; Hazardous Polymerization: none known; Hazardous Decomposition Products: none known; Conditions to Avoid: excessive heat, strong acids and bases, and disinfectants.

Section 11: Toxicological Information: Eye Contact: may cause irritation; Skin Contact: prolonged or repeated exposure may cause drying or irritation; Ingestion: more than an incidental amount may cause gastrointestinal symptoms; Systemic/Other Effects: not known; Carcinogenicity: NTP –not listed; IARC Monographs – not listed; OSHA - not listed; AGIH – not listed.

Section 12: Ecological Information: Product is non-toxic to fish and marine invertebrates when used as directed.

Section 13: Disposal Considerations: Wastes resulting from use may be disposed of on site or at an approved waste disposal facility. Dispose of wastes in accordance with all Federal, State, and Local laws.

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

Section 15: Regulatory Information: This product contains no substances reportable by CERCLA or SARA Title III Section 313, Section 302, or Section 311/312.

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