

For Chemical Emergency, Spill, Leaf, Fire, Exposure, or Accident, Call CHEMTREC Day or Night: 1-800-424-9300 For Medical Emergencies Only, Call: 1-877-325-1840

Voluntary Purchasing Groups, Inc. 230 FM 87

Bonham, Texas 75418

Hi-Yield® Bug Blaster II Turf, **Termite & Ornamental Control**

Effective Date: December 12, 2008

PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Bug Blaster II Turf, Termite & Ornamental

Control

GENERAL USE: Pyrethroid type insecticide/miticide PRODUCT DESCRIPTION: Beige liquid with a bland odor

MOLECULAR FORMULA (Active Ingredient): C₂₃H₂₂CIF₃O₂ (bifenthrin)

EPA No.: 5481-520-7401

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc. 230 FM 87 Bonham, TX. 75418

COMPOSITION / INFORMATION ON INGREDIENTS:

NAME	CAS#.	Wt%	Hazard(s)	PEL/TLV
Bifenthrin	82657-04-3	7.9%	None	None
Propylene glycol	57-55-6	<6.2%		10 mg/m³ (WEEL)
Inert Ingredients		92.1%	None	

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION: Moderately toxic if inhaled. Slightly combustible and may support combustion at elevated temperatures. Thermal decomposition may form toxic by-products. Do not contaminate food or feedstuffs.

KEEP AWAY FROM CHILDREN

Highly toxic to fish and aquatic organisms. Keep out of drains and watercourses

POTENTIAL HEALTH EFFECTS

ROUTE(s) OF ENTRY: Typical routes of exposure are swallowing, inhalation, or coming into contact with the skin.

SIGNS OF ACUTE OVEREXPOSURE: Symptoms of overexposure include tremors, convulsions, in coordination, decreased locomotion and nasal discharge, including bleeding. Contact with Bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

SIGNS OF CHRONIC OVEREXPOSRE: Same as acute.

OTHER POTENTIAL HEALTH EFFECTS: Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect.



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MEDICAL CONDITIONS AGGRAVATED BY EXPOSRE: None presently known.

CARE SHOULD BE EXERCISED IN HANDLING THIS PRODUCT.

4. FIRST AID MEASURES:

EYES: Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician if irritation occurs and persists.

INHALATION: Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Contact a physician immediately.

INGESTION: Induce vomiting by giving two glasses of water and sticking a finger down throat or giving syrup of ipecac. Never give anything by mouth to an unconscious person. Contact a physician immediately.

SKIN: Remove contaminated clothing. Wash thoroughly with soap and clean water. If a rash or any of the symptoms of acute exposure appear, contact a physician immediately.

NOTE TO PHYSICIANS: Bifenthrin is moderately toxic if swallowed and has low dermal toxicity. It may be slightly irritating to the skin and practically non-irritating to the eyes. Bifenthrin has high toxicity by the ingestion route of exposure. Gastric lavage using an endotracheal tube may be preferred to vomiting. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care. Contact your local poison control center for more medical information.

5. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES:

Flash Point: >212° F /100°C (TCC)

Auto ignition Temperature: Not determined

Flammable Limits:

Lower flammable limit: Not determined Upper flammable limit: Not determined

EXPLOSIVITY:

Mechanical Impact: Not expected to be explosive Under mechanical impact conditions.

Static Discharge: Not expected to be explosive.

HAZARDOUS COMBUSTION PRODUCTS:

Slightly combustible liquid, and may support combustion at elevated temperatures. This product may emit hazardous fumes of hydrogen chloride, hydrogen fluoride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED BREATH APPARATUS.

EXTINGUISHING MEDIA: Water spray, dry chemical, foam or carbon dioxide.

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



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6. ACCIDENTAL RELEASE MEASURES:

GENERAL: Thoroughly ventilate area. Wear self-contained breathing apparatus and complete protective clothing as listed in Section 8. Keep unauthorized personnel out of area.

SMALL SPILL: Dike area to prevent contamination of water bodies. If liquid, absorb liquid on solid nonflammable support (Diatomaceous earth, kitty Litter, Clean Dry, etc). Place in covered containers. Clean area first with an alcoholic caustic or soda ash solution, then follow with soap and water. The cleaning solutions are also hazardous wastes.

LARGE SPILL: Dike the spill area to prevent contamination of water bodies. If liquid, siphon as much liquid as possible into drums for reuse or disposal. Absorb remaining liquid on a solid absorbent. Place absorbed material into a sealable container and seal. Clean the spill area first with an alcoholic caustic or soda ash solution, and then follow with soap and water. The cleaning solutions are also hazardous wastes.

7. HANDLING AND STORAGE:

HANDLING: Keep this product cool and dry. Keep container closed. Store away from feed, food and drink. Keep away from children and pets. Wash thoroughly after handling this product. Make certain containers are grounded to prevent static buildup and discharge.

STORAGE: Store product in its original container in a cool, dry, locked place out of the reach of children. Store away from sources of heat and ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

ENGINEERING CONTROLS: Ventilation should be sufficient to keep the exposure below applicable TLV's.

RESPIRATORY PROTECTION: A properly FIT-TESTED NIOSH/MSHA approved respirator fitted with organic vapor cartridges and dust caps (or equivalent dust protection device) is required if exposures will be at or above the TLV for this product.

SKIN PROTECTIONS: Applicators and other handlers must wear long-sleeved shirt and long pants: waterproof gloves (such as rubber, neoprene or PVC); and shoes plus socks. For cleanup or spills or other large exposures, wear full body cover barrier suit, such as a PVC suit. Follow manufacturer's instructions for cleaning/maintaining personal protection equipment (PPE). If no such instructions are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

EYE PROTECTION: Safety glasses with side shields should be used whenever hazardous chemicals are being handled. Goggles or full-face shield should be used if there is a potential for splashing.

OTHER PROTECTION: An eyewash station and a safety shower should be located in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance: Beige liquid
Odor: Bland

Odor Threshold: None established Boiling Point: Not available



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Freezing/Melting Point: -2°C (28°F) Specific Gravity: -2°C (28°F) 1.024g/mL @ 20°C

Density: 8.53 lb/gal

Vapor Pressure (mm/Hg): 1.81x10-7mm Hg@25°C

(ai)

Vapor Density: Heavier than air Percent Volatile by VOL: Not applicable Dispersible

Solubility (Other): This product is soluble in aromatic solvents

Partition Coefficient (Log Po/w): >6.0 (Bifenthrin)

PH (5% in water): 6.7@25°C
Evaporation Rate: Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (conditions to avoid): This product is stable under normal storage and use conditions.

INCOMPATIBILITY: Avoid excessive heat and flame.

HAZARDOUS DECOMPOSITION PRODUCTS: This product may emit hazardous fumes of hydrogen chloride, hydrogen fluoride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAT SELF – CONTAINED BREATHING APPARATUS when these conditions are present.

HAZARDOUS POLYMERIZATION: this produce will not polymerize.

11. TOXICOLOGICAL INFORMATION

The information listed below is either for this formulation (f) or for the active ingredient (ai).

INGESTION:Oral LD50(female rat)310 mg/kg (Tox Cat II)(f)DERMAL:Skin LD50(rabbit)5050 mg/kg (Tox Cat IV)(f)INHALATION:Inhalation LC50(rat)>2.65 mg/L (Tox Cat IV)(f)

IRRITATION: Eye irritation: Practically non-irritating(Tox Cat IV)(f)

(rabbit)

Skin irritation: Non irritating (Tox Cat IV)(f)

(rabbit)

SENSITIZATION: Skin sensitization: Not a sensitizer (f)

TERATOGENICITY: In studies with animals, Bifenthrin did not cause teratogenicity (ai). **MUTAGENICITY:** tests with Bifenthrin have shown an absence of genotoxicity (ai).

CARGINOGENICITY: Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect. None of the following agencies have classified Bifenthrin as carcinogenic: IARC, NTP, OSHA, and ACGIH. EPA in 1992 classified Bifenthrin as a Group C possible human carcinogen based on limited evidence of carcinogenicity in animals and in absence of human data.

REPRODUCTIVE TOXICITY: In studies with animals, Bifenthrin did not cause reproductive toxicity (ai).

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: No information is available (ai).



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12. ECOLOGICAL INFORMATION

General: This pesticide is highly toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply directly to water, to area where surface water is present, or to inter-tidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water. Do not apply directly adjacent to potable water supplies.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

CONTAINER DISPOSAL: 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. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

14. TRANSPORTATION INFORMATION

This product is not regulated when shipped by highway, railroad or air in packages >119 gallons(450L) in volume. When this product is shipped in bulk or is shipped by water (non-bulk or bulk), it is regulated according to the date lasted below:

DOT Class 9

UN Number UN3082

IMDG Class (sea) 9
IATA Class 9

Marine Pollutant Yes (Bifenthrin=Severe

Marine pollutant)

Packing Group III

Hazard Label (s) Environmentally Hazardous Environmentally hazardous Substances, liquid,n.o.s.

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(Bifenthrin 7.9%

Reportable Quantity: None

US Surface Freight Class Insecticides, NOI, Poison other than Poison, NMFC Item 102120

PACKAGING

General Description: Pint, quart, 1-gallon bottles, 5 gal carboy; 55 gal drum

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this produce in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPT/TSCA.

HI-YIELD BUG BLASTER II TURF, TERMITE & ORNAMENTAL CONTROL is a RESTRICTED USE PESTICIDE. Due to the restricted use designation, retail sale to and use of this product is to be done only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.



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SARA TITLE III DATE:

Section 311 & 312 Hazard Categories:

Immediate Health Hazard: Yes

Delayed Health Hazard: Yes Fire Hazard: No

Reactive Hazard No
Sudden Pressure Release Hazard: No
Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals::

Bifenthrin (CAS 82657-04-3) 7.9%

CERCLA Reportable Quantities (RQ): Not listed.

STATE REGULATIONS:

CALIFORNIA (Proposition 65): Not listed

16. OTHER INFORMATION

DISCLAIMER: This information is provided for the limited guidance to the user. While Voluntary Purchasing Groups, Inc. believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for the users' purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

ABBREVIATIONS:

EPA

FIFRA

Ai active ingredient

ACGIH American Conference of Governmental Industrial Hygienists

BEI Biological Exposure Index

CERCLA Comprehensive Environmental Response,

Compensation, and Liability Act Environmental Protection Agency

Federal Insecticide, Fungicide, and

Rodenticide Act

IARC International Agency for Research on Cancer

NTP National Toxicology Program

OSHA Occupational Safety and Health Agency

SARA Superfund Amendments and Reauthorization Act

TSCA Toxic Substances Control Act

This is the last page of this MSDS. There should be 6 pages.