



Safety Data Sheet

Report Date 11-Aug-16

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1. Identification

Product Name : PRO-MATE BIFENTHRIN
Synonyms : None
Product Use : Bifenthrin, Pyrethroid Insecticide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Oral : LD50 632 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rabbit)
Hazard Categories : Oral/Inhalation Toxicity-4/4; STOT-Single-1; STOT-Repeated-1; Carcinogenicity-2
Hazard Statement : Harmful if swallowed
Harmful if inhaled
Causes damage to organs (central nervous system)
Causes damage to organs (central nervous system) through prolonged or repeated exposure
Suspected of causing cancer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Bifenthrin	82657-04-3	7.90
Propylene Glycol	57-55-6	5-10
Nonhazardous formulation aids	Proprietary	82.1-87.1

4. First Aid Measures



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- Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
- Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
- 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 poison control center or doctor for further 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 a poison control center or doctor. Do not give anything by mouth if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treatment is symptomatic and supportive. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Avoid digestible fats, oils or alcohol as they may increase absorption.

5. Fire Fighting Measures

- Extinguishing Media** : Use foam, carbon dioxide or dry chemical. Soft stream or water fog only if necessary.
- Specific Hazards Arising from the Chemical** : None known
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Isolate and post spill area. Keep people and animals away from and upwind of spill/leak.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, long-sleeved shirt and long pants, socks and shoes. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike to prevent runoff. Keep material out of lakes, streams, ponds and sewer drains.
- Methods and Materials for Containment and Cleanup** : Absorb spilled liquid with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate other pesticides, fertilizers, water, food or feed by storage or handling.
- Conditions for Safe Storage** : Store in original container. Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals.



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8. Exposure Controls / Personal Protection

TLV/PEL : No TLV or PEL established.

Appropriate Engineering Controls : General and/or local exhaust should be sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, long-sleeved shirt and long pants, socks and shoes. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Beige liquid with mild odor.

Flash Point, °F : >100 Degrees C. (TCC)

Boiling Point, °F : No information available

Melting Point(Freezing point), °C : Not applicable

Vapor Pressure, mm Hg @ 20 °C : No information available

Vapor Density : No information available

Solubility in Water : Dispersible in water

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.024

Evaporation Rate(Butyl Acetate = 1) : No information available

Octanol/Water Partition Coefficient : No information available

pH : 6.7

Flammable Limits (approximate volume % in air) : No information available.

Auto-ignition Temperature : No information available

Decomposition temperature : No information available

10. Stability and Reactivity

Reactivity : None under normal use conditions

Chemical Stability : Stable

Hazardous Decomposition Products : Carbon oxides, hydrogen chloride, hydrogen fluoride, chlorine, fluorine.

Hazardous Polymerization : Will not occur

Conditions to Avoid : Heat, flames and sparks.

Incompatible Materials : None known

11. Toxicological Information



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- Acute Toxicity (Oral LD50)** : 632 mg/kg (rat). Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >2,000 mg/kg (rabbit). Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Acute Toxicity Inhalation LC50** : 1.60 mg/L/4 hour (rat). Harmful if inhaled.
- Likely Routes of Exposure** : Ingestion, inhalation
- Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Skin Sensitization** : Non-sensitizing
- Carcinogenic** : Suspected of causing cancer.
- Chronic Effects** : Specific Target Organ Toxicity-Repeated Exposure: Causes damage to organs (central nervous system) through prolonged or repeated exposure.
- Other Hazards** : Specific Target Organ Toxicity-Single Exposure: Causes damage to organs (central nervous system). For Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice.

12. Ecological Information

- Ecotoxicity** : Bifenthrin: Fish 96 hr/LC50=0.1 mcg/L; Algae 72 hr/EC50=0.822 mg/L; Crustacea 48 hr/EC50=0.11 mcg/L.
- Persistence and Degradability** : Bifenthrin is moderately persistent. It does not readily hydrolyze and is not readily biodegradable.
- Bioaccumulative Potential** : Bifenthrin: The substance has a potential for bioconcentration.
- Mobility in Soil** : Bifenthrin: Immobile. Not expected to reach groundwater.
- Other Adverse Effects** : No information found.

13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : Not listed as a Marine Pollutant per Appendix B to 49 CFR 172.101. Classified as a Marine Pollutant under EU guidelines.
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Bifenthrin), 9, PG III, Marine Pollutant
- Freight Classification** : Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)



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15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of Pressure: N
Fire: N
Reactive: N

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

EPA Registration Number : 279-3206-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if swallowed, inhaled or absorbed through skin.

FIFRA Label Statement : Avoid contact with skin, eyes or clothing.

FIFRA Label Statement : Avoid breathing spray mist.

FIFRA Label Statement : Wash thoroughly with soap and water after handling and before eating, drinking,

FIFRA Label Statement : chewing gum, or using tobacco.

FIFRA Label Statement : Remove contaminated clothing and wash before reuse.

16. Other Information

Data of Preparation/Revision : 11-August-2016