

SAFETY DATA SHEET

BIFENTHRIN 13% MUP

1. IDENTIFICATION

Product name: **BIFENTHRIN 13% MUP**
Product type: Insecticide/Miticide
EPA Registration No.: 53883-202
Chemical name of active ingredient(s): Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl)-methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl cyclopropanecarboxylate
Manufacturer/Registrant: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507
For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300
For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050
Poison Control Center Phone: 1-800-222-1222

2. HAZARDS IDENTIFICATIONS

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Toxicity:

	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	4	4	NC	2B	NC	NC

NC: Not classified

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

- Harmful if swallowed
- Harmful if contact with skin
- Causes eye irritation
- Suspected of causing cancer (Bifenthrin : Carcinogenicity – Category 2)

PICTOGRAMS:



PRECAUTIONARY STATEMENTS:

- Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Call a poison center if you feel unwell. Rinse mouth.
- Wear protective gloves and protective clothing. If on skin: Wash with plenty of water. Call a poison center or a doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.

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- Wash hand thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing or eye/face protection. If exposed or concerned: get medical advice.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Bifenthrin	82657-04-3	13	NE	NE	NE	NA

NA: Not applicable; NE: Not established.

4. FIRST AID MEASURES

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none">• 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.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.• Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT: 350°F (176.7°C)

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Water fog, CO₂, foam, dry chemical.

FIRE & EXPLOSION HAZARDS: Will not burn but may decompose upon heating to produce toxic fumes.

FIRE-FIGHTING PROCEDURES: Isolate fire area. Do not breathe smoke, gases or vapors generated.

FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and full-protective clothing.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated it may decompose to emit toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Clean up spills immediately. Soak up with and absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste. Keep unnecessary and unprotected personnel from entering. Keep material out of lakes, streams, ponds and sewer drains. Do not allow material to run off into soil, drainage systems, or bodies of water. Notify and consult with proper regulatory authorities.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

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PRECAUTIONS TO BE TAKEN IN STORAGE: Store upright at room temperature. Avoid exposure to extreme temperatures.

STORAGE TEMPERATURE (MIN/MAX): Normal to ambient temperature.

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.

HAND PROTECTION: Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber, or Viton.

EYE PROTECTION: Protective eyewear.

SKIN PROTECTION: Long-sleeved shirt and long pants. Shoes plus socks.

RESPIRATOR REQUIREMENTS: Not required – Use normal safety precautions.

ADDITIONAL PROTECTIVE MEASURES: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

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

EXPOSURE GUIDELINES: Refer to Section 3.

ENGINEERING CONTROLS: Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pale amber liquid

ODOR: Mild chemical

pH: 5-7

FLASH POINT: 350°F (176.7°C)

DENSITY: 7.3 lb/gal

VISCOSITY: 6.3 cps @25°C

VAPOR PRESSURE: Not available

SOLUBILITY: Not available

PARTITION COEFFICIENT: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Exposure to extreme temperature.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated it may decompose to emit toxic fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD50 (Rat): > 300 mg/kg

Acute Dermal LD50 (Rabbit): > 1000 mg/kg

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Acute Inhalation LC50 (Rat): > 10 mg/L (4 hrs.)
Eye Irritation (Rabbit): Irritating
Skin Irritation (Rabbit): Irritating
Dermal Sensitization (Guinea Pig): Not a contact sensitizer

POTENTIAL HEALTH EFFECTS:

Ingestion: Ingestion of pyrethroids may cause a sore throat, nausea, abdominal pain and vomiting almost immediately after ingestion. Other reported symptoms included increased oral secretions, ulcerations in the mouth, difficulty swallowing, headache, dizziness and fatigue.

Eye: Irritant. Exposure may result in redness and tearing.

Skin: Irritant. Paresthesia is typically reported only at the site of dermal exposure and is not associated with systemic intoxication

Inhalation: Respiratory and nasal irritation may be caused by the inhalation of aerosol droplets or dust of pyrethroids.

SYMPTOMS OF ACUTE EXPOSURE: Large doses may cause incoordination, tremor, salivation, vomiting, diarrhea and irritability to sound and touch.

CARCINOGENICITY:

Bifenthrin: No evidence of cancer was observed. [EPA listed Bifenthrin as Group C--Possible Human Carcinogen (2003 Report)]

REPRODUCTIVE TOXICITY:

Bifenthrin: Not teratogenic in animal experiments.

12. ECOLOGICAL INFORMATION

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

ECOTOXICOLOGICAL INFORMATION:

Aquatic Organisms Effects:

Rainbow trout LC₅₀ (96-h): 0.00015 mg/L

Bluegill LC₅₀ (96-h): 0.00035 mg/L

Daphnia magna EC₅₀: 0.0016 mg/L

Effects on Birds:

Mallard Duck LD₅₀: 2,150 mg/kg; (8-day dietary): 1,280 ppm

Bobwhite quail LD₅₀: 1,800 mg/kg; (8-day dietary): 4,450 ppm

Bifenthrin is toxic to bees.

13. DISPOSAL CONSIDERATIONS

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

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

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14. TRANSPORT INFORMATION

Ground Domestic (DOT):

Not regulated

INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN3082, Environmentally Hazardous substances, liquid, n.o.s. (bifenthrin), 9, PGIII, Marine Pollutant

IATA (air): UN3082, Environmentally Hazardous substances, liquid, n.o.s. (bifenthrin), 9, PGIII

15. REGULATORY INFORMATION

FIFRA INFORMATION:

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

WARNING May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles face shield, or safety glasses). Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Chronic health hazard (delayed)

Section 313: Bifenthrin (13%) CAS #:82657-04-3

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable

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

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

16. OTHER INFORMATION

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

SDS DATE: 2-26-2015.

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