

MATERIAL SAFETY DATA SHEET

BUG BUSTER II

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Issue Date: 04/11

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

BUG BUSTER II

EPA Reg. No. 1021-1778-54705

Common Name: Esfenvalerate formulation.

Chemical Description: Water dilutable pyrethroid.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For

Lawn and Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Esfenvalerate	66230-04-4	0.425	*N.A.	*N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

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

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, light liquid with very faint sweet odor. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 1 FLAMMABILITY: 1 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

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

Skin: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

Notes to Physician: For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate, (Vitamin E). Diazepam has been recommended to reduce the CNS effects of Esfenvalerate.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	>200°F (93.3°C).
Test Method:	TAG Closed Cup
LEL Flammable Limits:	Not known.
UEL Flammable Limits:	Not known.
Autoignition Temperature:	Not known.
Flammability Classification:	This product is NOT classified as flammable or combustible by OSHA.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Water spray, foam, carbon dioxide or dry chemical.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Keep nearby containers and equipment cool with a water stream. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment: Stop release, if possible without risk. Dike or contain release, if possible and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Prevent product spillage from entering drinking water supplies or streams. Pyrethroids are toxic to fish and other aquatic invertebrates.

Clean Up: Collect liquid or absorb onto absorbent material and package for disposal.

Evacuation: Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid contamination of food and feedstuffs.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Wear long sleeves and trousers, chemical resistant gloves and additional protective clothing when needed to prevent dermal exposure. Supplier OEL – Skin - TWA – 2 mg/m ³

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT (Continued)
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Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9.	PHYSICAL AND CHEMICAL DATA
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Appearance:	Liquid.
Odor:	Very faint sweet odor.
pH:	4.8
Vapor Pressure:	Not available.
Vapor Density (Air=1):	Heavier than air.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Miscible in water.
Density:	8.70 lbs./gal. (Specific Gravity – 1.044 @ 20°C)
Evaporation Rate:	Not available.
Viscosity:	43.5 cps @ 24°C Brookfield.
VOC:	<18%
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10.	STABILITY AND REACTIVITY
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Stability:	Stable.
Conditions To Avoid:	Strong acids, bases or strong oxidizers.
Incompatibility:	Not compatible with strong acids or bases and strong oxidizers.
Hazardous Decomposition Products:	Hydrogen Cyanide Gas may be formed by thermal decomposition at (160°F / 71.1°C, or higher) or by contact with alkaline substances such as soda ash & lye.

Hazardous Polymerization: Will not occur.

SECTION 11.	POTENTIAL HEALTH EFFECTS
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Acute Effects:

Eyes: Causes temporary irritation, tearing, and blurred vision.
Skin: Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Prolonged or repeated exposure can cause allergic reactions in some individuals.
Dermal LD₅₀ (Albino rabbit): >20000 mg/kg.
Ingestion: Harmful if swallowed. Oral LD₅₀ (Albino rat): >1500 mg/kg.
Inhalation: Excessive inhalation may be irritating to the respiratory tract. The Acute LC₅₀ of this material places it in EPA Toxic Category IV.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12.	ECOLOGICAL INFORMATION
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Algal/Lemna Growth Inhibition: Not known.
Toxicity to Fish and Invertebrates: Extremely toxic to fish and other aquatic organisms.
Toxicity to Plants: Not known.
Toxicity in Birds: Not known.

SECTION 13.	DISPOSAL
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Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14.	TRANSPORTATION
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D.O.T.: Not D.O.T. Regulated.
Other Shipping Description: Insecticides or Fungicides, Liquid.
NMFC Item 102120, LTL Class 60

SECTION 15.	REGULATORY INFORMATION
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CERCLA: None

SARA TITLE III, Section 313 Toxic Chemicals: This product contains no SARA Title III, Section 313 chemicals that exceed the reporting limits.

PROPOSITION 65 (CA): None.

SECTION 16.	OTHER
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All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.