

MATERIAL SAFETY DATA SHEET



Bugg Products LLC

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Revision Date: 8/15/06

PRODUCT: Buggslyer Insecticide

EPA Reg. No. 67867-6

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling **large quantities** of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Buggslyer Insecticide
EPA REGISTRATION NUMBER: 67867-6
CHEMICAL NAME: Mixture; a.i.'s, Deltamethrin
PRODUCT DESCRIPTION: For Household and Domestic use only. Water based formulation for control of pest on lawns, ornamental plants, shrubs, decks, siding and foundations.
MANUFACTURER: Bugg Products LLC, 630 Lanewood Lane N, Plymouth, MN 55447
TELEPHONE: (763) 569-9800
EMERGENCY TELEPHONE: HEALTH EMERGENCY OR SPILL (24 hr): (800) 858-7378
Within the United States (877) 315-9819
Outside the United States (651) 632-6184

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name (CAS #) [Chemical Name]	Weight Percent	Exposure Limit	Ref.
Deltamethrin (52918-63-5) * [1R-[1 α (S*),3 α]]-cyano(3-phenoxyphenyl)methyl 3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropanecarboxylate Synthetic Pyrethroid	= 1.00	None established	OSHA/ACGIH
		TWA-TEL: 45 $\mu\text{g}/\text{m}^3$	Mfg.
		STEL (15 minutes): 100 $\mu\text{g}/\text{m}^3$	Mfg.
Inert Ingredients:	= 99.00		

* Active Ingredient

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SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WHITE LIQUID

**CAUTION:- HARMFUL IF INHALED
TOXIC TO FISH AND OTHER AQUATIC ORGANISMS**

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Inhalation

Signs and Symptoms of Systemic Effects: Dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses).

Eye: Minimally irritating.

Skin: Minimally irritating. Skin contact may result in transient tingling and reddening of the skin.

Ingestion: May cause irritation if ingested.

Inhalation: If inhaled may cause irritation to nose and throat.

SECTION 4: FIRST AID MEASURES

EMERGENCY NUMBER

Within the United States (877) 315-9819

Outside the United States (651) 632-6184

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: Take off 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: 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.

HINTS FOR THE PHYSICIAN: This product is a synthetic pyrethroid pesticide. If ingested and vomiting has not occurred, emesis should be induced with supervision. Keep patient's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

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Do not administer milk, cream or other substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances. If localized paresthesia develops, the site should be thoroughly washed with soap and water. Cold cream can be applied to help diminish the effect.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: > 200°F (93°C) **METHOD:** TCC

AUTOIGNITION: NA

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, or Water

FLAMMABLE LIMITS (% by volume in air): Lower: NA Upper: NA

FIRE AND EXPLOSION HAZARDS: Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

HAZARDOUS COMBUSTION PRODUCTS: May form toxic materials: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PHONE NUMBER: Within the United States (877) 315-9819
Outside the United States (651) 632-6184

OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Ventilate area. Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

GENERAL AND DISPOSAL: Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, Provincial, and local regulations (See Section 13 for applicable RCRA Number). Refer to Section 15 for applicable Reportable Quantity (RQ) and other regulatory requirements.

SPILL OR LEAK

CONTAINMENT:

Soak up liquid with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. and dispose of in trash. Place in an approved chemical waste container for disposal. Do not allow spill material to enter any body of water.

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CLEANUP:

Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Harmful if inhaled. Avoid breathing vapor or spray mist. Avoid contact with skin or clothing. Contact with product may result in transient tingling and reddening of the skin that may persist for 24 hours. Avoid contamination of feed and foodstuff.

Do not use water-based sprays of Buggslayer in conduits, motor housing, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

Wear long-sleeved shirt and long pants while applying this product through hose-end sprayer. Food utensils, such as spoons and measuring cups, must not be used for food purposes after use in measuring pesticides. Do not allow children or pets on treated areas until spray has dried.

STORAGE PRECAUTIONS:

Store in a cool, dry area away from children. Do not transport or store below 32°F. Do not contaminate water, food or feed by storage or disposal.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling and before eating drinking, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before reuse.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Not required with normal use, unless label directs otherwise.

RESPIRATION/VENTILATION: Use in a well-ventilated area. Vacate premise during use and ventilate before reoccupying.

SKIN PROTECTION: Long-sleeved shirt and long pants while applying this product through hose-end sprayer.

OTHER/GENERAL PROTECTION: Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White

ODOR: Glue, faint paint, very mild soapy-like

PHYSICAL STATE: Liquid

SOLUBILITY (H₂O): Soluble

pH: 3.78

DENSITY/SPECIFIC GRAVITY: 8.27 lb/gal @ 22°C

VISCOSITY: 863 cps @ 22°C

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SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat and sources of ignition.

INCOMPATIBILITY: Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

OXIDATION/REDUCTION PROPERTIES: Product does not have the potential to act as a strong oxidizing or reducing agent.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE (Product Specific Information): No acute toxicity data is available for this formulation. Acute toxicity has been completed on a similar formulation containing 4.75% Deltamethrin.

Oral Toxicity LD₅₀ (rat):	>15,000 mg/kg	IV EPA Tox Category
Dermal Toxicity LD₅₀ (rabbit):	>10,000 mg/kg	IV EPA Tox Category
Inhalation Toxicity LC₅₀(rat):	> 1.02 mg/L	III EPA Tox Category
Eye Irritation (rabbit):	Non-irritant	IV EPA Tox Category
Skin Irritation (rabbit):	Non-irritant	IV EPA Tox Category
Skin Sensitization (guinea pig):	Sensitizer	

TOXICITY OF ACTIVE INGREDIENTS: DELTAMETHRIN:

CHRONIC/CARCINOGENICITY:

General neurological symptoms were exhibited in studies with rats, mice and dogs. These symptoms included unsteadiness, abnormal gait, tremors and liquid feces. No histopathologic findings were observed except some signs of slight hepatotoxicity in mice. No Observable Effect Levels hepatotoxicity in mice. No Observable Effect Levels (NOEL's) were 1 mg/kg/day in the 2-year rat and dog studies. The NOEL for the 2-year mouse study was approximately 12 mg/kg/day. Deltamethrin was not carcinogenic in rats or mice.

NEUROTOXICITY:

Deltamethrin does not inhibit acetylcholinesterase. Neurobehavioral effects including unsteadiness, excessive salivation, vomiting, liquid feces, uncoordinated movement, tremors, spasmodic convulsions that are typically related to Central Nervous System (CNS) stimulation, were observed in some studies. The NOEL for these studies was 1 mg/kg/day or higher.

REPRODUCTIVE/DEVELOPMENTAL:

No developmental effects were observed in studies with rats or rabbits in the absence of maternal toxicity. The developmental NOEL for the rat study was 3.3 mg/kg/day while the developmental NOEL for rabbits was 25 mg/kg/day. Reproduction studies with rats produced clinical signs, reduced body weight gain and mortality in parents and offspring at very high dosages. The NOEL for the parents and offspring was 80 ppm or approximately 4 to 12 mg/kg/day for adults and 18 to 44 mg/kg/day for offspring.

MUTAGENICITY:

No evidence of genotoxicity was observed in a battery of in vitro and in vivo studies.

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CARCINOGENICITY: NTP: None ACGIH: None IARC: Deltamethrin (52918-63-5)
OSHA: None

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES:

This product is extremely toxic to fresh water and estuarine fish and invertebrates. Do not apply directly to water. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

OTHER ENVIRONMENTAL INFORMATION: Do not contaminate water by disposal of wastes.

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL:

Do not reuse this container. If empty: Place in trash or offer for recycling if available.

RCRA INFORMATION

RCRA HAZARDOUS WASTE INGREDIENTS: None

SECTION 14: TRANSPORT INFORMATION

DOT. PROPER SHIPPING NAME: Not DOT Regulated

RQ: NA

DOT. HAZARD CLASS: NA

UN/NA NUMBER: NA

EXEMPTION REQUIREMENT: NA

NOTE: NA

SECTION 15: REGULATORY INFORMATION

REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

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OTHER U.S. FEDERAL REGULATIONS:

TSCA Inventory: Registered Pesticide, exempt from TSCA.

SARA TITLE III:

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 (EPCRA) of 1986 and of 40 CFR 372:

CAS NUMBER	INGREDIENT NAME	PERCENT BY WEIGHT
	None	

SARA Title III:

Acute Health Hazard - Yes
Chronic Health Hazard - No
Fire Hazard - No
Sudden Release of Pressure - No
Reactivity Hazard - No

This information must be included on all MSDS's that are copied and distributed for this material.

REGULATED INGREDIENTS

INGREDIENT: Deltamethrin

CAS NUMBER: 52918-63-5

PERCENT BY WEIGHT: = 1.00

Regulations: European Inventory of Existing Commercial Substances (EINECS)

INGREDIENT: Propylene Glycol

CAS NUMBER: 57-55-6

PERCENT BY WEIGHT: < 3.0

Regulations: State right-to-know: PA
U.S. TSCA Inventory Status
Australian (NICNAS)
Canadian Domestic Substance List (DSL)
European Inventory of Existing Commercial Substances (EINECS)
Japan (MITI) (MOL)
Korea (TCCL)
Philippines (RA6969)

INGREDIENT: Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched

CAS NUMBER: 127087-87-0

PERCENT BY WEIGHT: < 3.0

Regulations: U.S. TSCA Inventory Status
Canadian Domestic Substance List (DSL)
Canada (WHMIS)
European Inventory of Existing Commercial Substances (EINECS)
Australian (NICNAS)
China
Korea (TCCL)
Philippines (RA6969)
State right-to-know: PA

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STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities

HMIS HAZARD RATING

HEALTH:	1 Slight
FIRE:	0 Moderate
REACTIVITY:	0 Negligible
PROTECTION:	B

NFPA HAZARD RATING

HEALTH:	1 Slight
FIRE:	0 Moderate
REACTIVITY:	0 Negligible
SPECIAL:	-

RATINGS:

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4).

These values are obtained using professional judgment. Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with the information contained in the product MSDS.

* RQ: Reportable Quantity

** RCRA waste codes must be determined on a case-by-case basis (i.e., spill, processing waste, etc.).

For information regarding potential adverse health effects from exposure to this product, refer to Sections 3 and 11.

SECTION 16: OTHER INFORMATION

REASON FOR ISSUE: New product

REVISION NUMBER: 0

REVISION DATE: 8/15/06

SUPERSEDES DATE: -

EPA REGISTRY NUMBER: 67867-6

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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 INFORMATION IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT BUGG PRODUCTS LLC TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

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