

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 09/27/2002

MSDS No: 7166

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Bug-B-Gon® Garden & Landscape Ready-To-Use Insect Killer Dust**PRODUCT DESCRIPTION:** Insecticide

MANUFACTURER

The ORTHO Group
P.O. Box 190
Marysville, OH 43040

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: 1-800-225-2883

EPA REG. NO.: 28293-126-239A **PN:** 7046

2. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>Wt. %</u> | <u>CAS#</u> |
|----------------------|--------------|-------------|
| Permethrin | 0.25 | 52645-53-1 |
| Other Ingredients | 99.75 | |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION -

Harmful if swallowed or inhaled.

Avoid breathing dust.

Avoid contact with eyes and skin.

KEEP OUT OF REACH OF CHILDREN.

POTENTIAL HEALTH EFFECTS

EYES: Eye contact may cause discomfort, tearing, swelling, redness, and blurred vision. See Toxicology Information, Section 11.**SKIN:** This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic. See Toxicological Information, Section 11.**INGESTION:** Ingestion may cause irritation of the digestive tract which may include nausea, vomiting, and diarrhea. If swallowed, this substance is considered slightly toxic to internal organs. See Toxicological Information, Section 11.**INHALATION:** The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic if inhaled.

4. FIRST AID MEASURES

EYES: Hold eye 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 eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Synthetic pyrethroids are neuropoisons acting on the axons in the peripheral and central nervous systems by interacting with sodium channels in insects or mammals. Toxic signs in mammals include tremors, hyperexcitability, salivation, and paralysis. Atropine and pralidoxime (2-PAM) are of no benefit as cholinesterases are unaffected. Supportive therapy should be administered based on the signs and symptoms present. Vitamine E oil applied dermally may relieve cutaneous paresthesias following skin contact.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2000-3 April 11, 2000 - and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: CO₂, dry chemical, or foam.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce hydrochloric acid gas. Incomplete combustion can produce carbon monoxide and hydrogen chloride.

EXPLOSION HAZARDS: Product contains dust particles that may be explosive if mixed with air in critical proportions and in the presence of an ignition source.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up material and use according to label instructions or dispose of in the trash.

LARGE SPILL: Clean up spills immediately, observing precautions in Exposure Controls/ Personal Protection section. Vacuum with machines equipped with high efficiency filters or sweep up material and place in a disposable

container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, cat litter, clay, rags or other absorbent and place in a disposable container. Dispose of in accordance with instructions in Section 13. "DISPOSAL".

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Do not put into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

PERSONAL PROTECTION

EYES AND FACE: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

For application of product in accordance with label instructions, no special eye protection is needed.

SKIN: Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact in the workplace. Consult glove manufacturer to determine appropriate type of glove for given application. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling. Household latex or rubber gloves are recommended for product application (see product label).

RESPIRATORY: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded (see below). If used, full facepiece replaces need for chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134. For application of product in accordance with label instructions, no special respiratory protection is required.

COMMENTS: Nuisance Dust (OSHA) - 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Fraction). Particulates Not Otherwise Classified (PNOC) ACGIH- 10 mg/m³ (Inhalable Particulate), 3 mg/m³ (Respirable).

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

| <u>Chemical Name</u> | <u>EXPOSURE LIMITS</u> | | |
|----------------------|------------------------|------------------|-------------------|
| | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>ACGIH STEL</u> |
| Permethrin | None | None | None |

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Powder

ODOR: Odorless

APPEARANCE: Off-white fine powder

SOLUBILITY IN WATER: Slightly soluble

DENSITY: 50 lbs/cu. ft.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with acids and bases.

HAZARDOUS DECOMPOSITION: May decompose under fire conditions emitting gases and vapors (i.e. oxides of carbon and hydrogen chloride) which may be toxic and irritating to the respiratory tract.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Irritant. Avoid contact with eyes.

DERMAL LD₅₀: Toxicity Category III, CAUTION, mildly toxic.

ORAL LD₅₀: Toxicity Category III, CAUTION, mildly toxic

INHALATION LC₅₀: Toxicity Category III, CAUTION, mildly toxic

SENSITIZATION: No evidence of allergic skin reactions have been associated with permethrin. However, certain individuals may experience mild skin sensations (skin paresthesia characterized by numbing or tingling) having a latency of 30 minutes, peaking by 8 hours, that subsides within 24 hours.

CARCINOGENICITY:

IARC: Permethrin is classified by IARC as Group 3, unclassifiable as to carcinogenicity to humans.

NTP: There is no rating for the active ingredient(s) by the National Toxicology Program.

OSHA: The active ingredient is not considered to be a carcinogen by the Occupational Safety and Health Administration.

CARCINOGENICITY COMMENTS: Permethrin is classified by the U.S. EPA as a possible human carcinogen; Group C.

GENERAL COMMENTS: Persons having a history of insecticide exposure to pyrethrins may experience upper airway irritation and lower airway reactions, such as coughing, wheezing, or shortness of breath, particularly in sensitized individuals. Persons who cannot tolerate chrysanthemums, pyrethrins, and other synthetic pyrethroids may not tolerate permethrin.

COMMENTS: Consult a veterinarian before using this product on debilitated, aged, pregnant, or nursing animals, or animals on medication. Sensitivities may occur after using ANY pesticide for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. Consult a veterinarian immediately.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

ECOTOXICOLOGICAL INFORMATION: This material is toxic to fish. Keep out of any body of water. Do not

contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

PRODUCT DISPOSAL: Call local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any drain.

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

U.S. SURFACE FREIGHT CLASS: Insecticides, Fungicides, Insect or animal repellents or vermin exterminators, NOI, Other than poison

MARINE POLLUTANT #1: Permethrin - Severe Marine Pollutant

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

| PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA | | | | |
|--|-------------|----------|----------------|-------------------------|
| ACUTE: YES | CHRONIC: NO | FIRE: NO | REACTIVITY: NO | PRESSURE GENERATING: NO |

313 REPORTABLE INGREDIENTS: Permethrin. (CAS 52645-53-1) De Minimis Concentration for Section 313 of EPCRA is 1.0%.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: Pyrethrins = 1 Lb.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

STATE REGULATIONS

No ingredients on list.

16. OTHER INFORMATION

NFPA CODES

FIRE: 0 HEALTH: 1 REACTIVITY: 0

APPROVAL DATE: 09/27/2002

REVISION SUMMARY New MSDS

ADDITIONAL MSDS INFORMATION: NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

COMMENTS: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.