

# MATERIAL SAFETY DATA SHEET

DATE PREPARED: 07/30/2003

MSDS No: 7192

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ORTHO® Bug-B-Gon® MAX™ Insect Killer For Lawns**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.:** 279-3240-239 **PN:** 7097

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Bifenthrin	0.12	82657-04-3
Other Ingredients	99.85	

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** CAUTION - Causes eye irritation. - Harmful if swallowed. - Avoid contact with eyes, skin, or clothing. - Wash thoroughly with soap and water after handling. - KEEP OUT OF REACH OF CHILDREN

### POTENTIAL HEALTH EFFECTS

**EYES:** Eye contact may cause temporary discomfort (tearing, redness, etc.) due to the granular nature of the product.

**SKIN:** This substance is not expected to cause skin irritation. See Toxicological Information, Section 11.

**INGESTION:** This substance is slightly toxic if swallowed. See Toxicological Information, Section 11.

**INHALATION:** If inhaled, this substance is considered practically non-toxic. Breathing the dust may be irritating to the respiratory tract.

**ACUTE EFFECTS:** Effects from overexposure result from absorption through the skin or may result from inhaling the dust. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning, or tingling. These skin sensations are reversible and usually subside within 12 hours.

## 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:** This product has low oral and dermal toxicity. It is non-irritating to the eyes and skin. This product contains a granular material that may cause mechanical irritation to the eyes. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled by removal from exposure followed by symptomatic and supportive care. This product is a pyrethroid. If large amounts have been ingested, milk, cream, and other digestible fats and oils may increase absorption and so should be avoided.

**COMMENTS:** See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2001-1, January 2, 2001, and would apply in the event a product label is not immediately available.

---

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use CO<sub>2</sub>, Dry Chemical or Foam extinguishing media.

**HAZARDOUS COMBUSTION PRODUCTS:** Heating this material may generate carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

**EXPLOSION HAZARDS:** Product is slightly combustible. This material may support combustion at elevated temperatures.

**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. 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 spills. Use good housekeeping practices. Avoid contact with clothing, skin, and eyes. Wash hands after handling.

**LARGE SPILL:** Keep material out of lakes, streams, ponds, and sewer drains. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel, or pump all waste material, including absorbent, into a drum and label contents for disposal. To clean and neutralize spill area, tools, and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (methanol, ethanol, or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected.

---

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Do not contaminate water, food, or feed by storage or disposal.

**HANDLING:** See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Keep out of lakes, streams, or ponds. **KEEP OUT OF REACH OF CHILDREN.**

**STORAGE:** Keep out of reach of children and animals. Store in original container only. Store in a cool, dry place and avoid excess heat. Carefully open containers. For rigid containers after partial uses replace lids and close tightly. For bags after partial use, reseal opened bag by folding top down and securing.

---

## 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 potential for eye contact, wear chemical goggles and have eye wash equipment available.

**SKIN:** Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. 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. For application of product in accordance with label instructions, no special skin protection is required.

**RESPIRATORY:** This material may be an inhalation hazard and, unless ventilation is adequate, the use of approved respiratory protection is recommended.

**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>
Bifenthrin	None	None	None

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Granular

**ODOR:** Faint musty odor.

**APPEARANCE:** Tan solid granules

**DENSITY:** 1.39 g/mL

---

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Avoid contact with heat or open flame.

---

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** EPA FIFRA Toxicity Category III, LD50 greater than 2,000 mg/kg.

**ORAL LD<sub>50</sub>:** Rat = > 5 g/kg. EPA FIFRA toxicity Category - IV.

This product has low oral and dermal toxicity. It is non-irritating to the eyes and skin. Excessive exposure to dust may irritate the respiratory system, skin, and eyes. Bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

**CHRONIC:** No data available for this formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin.

### CARCINOGENICITY:

**IARC:** No

**NTP:** No

**OSHA:** No

**CARCINOGENICITY COMMENTS:** The EPA has classified bifenthrin as Group C - Possible Human Carcinogen.

**GENERAL COMMENTS:** The toxicity information is based on Talstar® PL Granular Insecticide, FMC Corporation, 0.2 % bifenthrin, MSDS Ref. No. 82657-04-3-44, 10/29/1999.

---

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This material is highly 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

**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

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Not listed.

### STATE REGULATIONS

**CALIFORNIA PROPOSITION 65:** No ingredients on list.

**GENERAL COMMENTS:** Bifenthrin, at concentrations of 1.0% or greater, meets the DOT definition of a severe marine pollutant.

---

## 16. OTHER INFORMATION

### NFPA CODES

**FIRE:** 0   **HEALTH:** 1   **REACTIVITY:** 0

**APPROVAL DATE:** 07/30/2003

**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.