

# MATERIAL SAFETY DATA SHEET



DATE PREPARED: 09/12/2002  
MSDS No: 7164

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ORTHO® Bug-B-Gon® Garden & Landscape Insect Killer Concentrate  
**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.:** 1021-1645-239 **PN:** 6072

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Esfenvalerate	0.42	66230-04-4
Other Ingredients	99.58	

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** WARNING -  
CAUSES SKIN IRRITATION AND MODERATE EYE IRRITATION  
DO NOT GET ON SKIN, EYES OR CLOTHING  
HARMFUL IF INHALED OR ABSORBED THROUGH SKIN  
AVOID BREATHING VAPOR OR SPRAY MIST.  
DO NOT USE NEAR HEAT, OPEN FLAME, OR ANY IGNITION SOURCE  
KEEP OUT OF REACH OF CHILDREN

### POTENTIAL HEALTH EFFECTS

**EYES:** This product is moderately irritating to the eyes. Eye contact may include discomfort, tearing, swelling redness, and blurred vision. See Toxicology Information, Section 11.

**SKIN:** This product causes skin irritation. This product is harmful if absorbed through the skin. See Toxicological Information, Section 11.

**INGESTION:** Can cause stomach irritation resulting in nausea, cramps, and vomiting. Can cause nervous system disorders such as fatigue, dizziness, headaches and lack of coordination. The degree of effects will depend on the amount of material ingested.

**INHALATION:** Excessive inhalation can cause nasal and respiratory irritation, nausea, and nervous system disorders such as fatigue, dizziness, headaches, lack of coordination, tremors, and unconsciousness.

## 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:** Note to Physician: The product contains a significant amount of petroleum distillate, therefore ingestion of this material or subsequent vomiting can result in aspiration which can cause chemical pneumonitis.

**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.

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## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Combustible liquid.

**FLAME PROPAGATION OR BURNING RATE OF SOLIDS:** Product does not sustain combustion - ASTM D-4206 test method.

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, dry chemical, or foam.

**HAZARDOUS COMBUSTION PRODUCTS:** Product may support combustion and decompose giving off toxic gases of carbon monoxide, carbon dioxide, and nitrogen oxides.

**FIRE FIGHTING PROCEDURES:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

**FLASHPOINT:** 70.6 C (159 F) Estimate based on most flammable ingredient.

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## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up spilled material with paper towels and discard in trash.

**LARGE SPILL:** Remove ignition sources. Dike or contain release. Keep vapors at a minimum. Collect product into suitable sized containers or drums. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

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## 7. HANDLING AND STORAGE

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

**HANDLING:** Read and observe all precautions and instructions on the product label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Remove contaminated clothing and wash before reuse. Do not contaminate water by product application or when disposing of equipment wash waters. Keep out of lakes, streams, or ponds. **KEEP OUT OF REACH OF CHILDREN.**

**STORAGE:** Read and observe storage instructions on the product label. Store in original container in a safe place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Read and observe label instructions for exposure controls/personal protection. No special ventilation is required under normal use conditions. However, if workplace operating conditions create airborne concentrations which exceed the recommended exposure standards (in Section 8), then special ventilation may be required.

### PERSONAL PROTECTION

**EYES AND FACE:** See label. Do not get this material in your eyes. Workplace eye contact can be avoided by wearing appropriate eye protection.

**SKIN:** See label. Do not get material on skin. Wash thoroughly with soap and water after handling. Skin contact can be minimized in the workplace by wearing appropriate protective clothing.

**RESPIRATORY:** See label. Do not breath product vapor or mist. In the workplace, use appropriate respiratory protection.

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):**

### EXPOSURE LIMITS

**Chemical Name**

Esfenvalerate

**OSHA PEL**

None

**ACGIH TLV**

None

**ACGIH STEL**

None

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**9. PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL STATE:** Liquid**ODOR:** Odor of petroleum solvent.**APPEARANCE:** Clear amber liquid.**PERCENT VOLATILE:** Less than 52%**SOLUBILITY IN WATER:** Emulsifiable**SPECIFIC GRAVITY:** 0.841 at 20°C**VISCOSITY:** 10CPS at 22 C

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**10. STABILITY AND REACTIVITY****STABLE:** YES**HAZARDOUS POLYMERIZATION:** NO**CONDITIONS TO AVOID:** Avoid contact with strong oxidizers, acids, and bases.

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**11. TOXICOLOGICAL INFORMATION****ACUTE****DERMAL LD<sub>50</sub>:** Rabbit, >2 g/kg body weight.**ORAL LD<sub>50</sub>:** Rats, >5.0 g/kg body weight.**INHALATION LC<sub>50</sub>:** LC50-4, Rats, >5.49 mg/L air.**EYE EFFECTS:** Rabbits, Conjunctival irritation clearing after 48 hours. Corneal opacity and iritis were not produced.**SKIN EFFECTS:** Rabbits - Primary Skin Irritation Index: 2.75.**SENSITIZATION:** Guinea pig - Not a dermal sensitizer.**CARCINOGENICITY:****CARCINOGENICITY COMMENTS:** IARC: No; NTP: No; OSHA: No, ACGIH, No.**COMMENTS:** Acute toxicology information provided by MGK, McLaughlin Gormley King Company, MSDS No. 002668.

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**12. ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION:** This material is highly toxic to fish. Do not apply directly to water. Drift from treated area may be hazardous to organisms in adjacent aquatic sites. Do not pour product or rinse water down any drain.

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**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:** Carefully follow label instructions for product disposal. Do not reuse container. Place empty container in trash or offer for recycling if available.

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## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Not Regulated**MARINE POLLUTANT #1:** Esfenvalerate - Listed as a Severe Marine Pollutant (49 CFR, part 172.101)**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.

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## 15. REGULATORY INFORMATION

**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****313 REPORTABLE INGREDIENTS:** No SARA 313 reportable ingredients.**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

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## 16. OTHER INFORMATION

**NFPA CODES****FIRE: 2 HEALTH: 2 REACTIVITY: 1****APPROVAL DATE:** 11/14/2002**REVISION SUMMARY** Revision #: 1

This MSDS replaces the MSDS. Any changes in information are as follows:  
In Section 5  
Flammable Rate

**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.