

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 04/24/2002

MSDS No: 7132

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ortho® Mosquito-B-Gon™ Tree, Shrub and Lawn Spray Ready-Spray®**PRODUCT DESCRIPTION:** Insecticide

MANUFACTURER

The ORTHO Group
P.O. Box 1749
Columbus, OH 43216

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone: 1-800-225-2883**EPA REG. NO.:** 1021-1758-239 **PN:** 7070

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Permethrin	2.5	52645-53-1
Other Ingredients	97.5	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION-

- MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN
- AVOID CONTACT WITH SKIN, EYES, OR CLOTHING
- AVOID BREATHING SPRAY OR MIST
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.**SKIN:** May cause skin irritation.**SKIN ABSORPTION:** May be harmful if absorbed through the skin.**INGESTION:** Ingestion may cause gastric irritation.**INHALATION:** This substance may be irritating to the respiratory tract 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.

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

FLASHPOINT AND METHOD: None detected at or below 200°F

FLAMMABLE CLASS: Not classified as a D.O.T. flammable or combustible material.

EXTINGUISHING MEDIA: Water Spray, dry chemical, CO₂, or foam.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce gases of carbon dioxide and carbon monoxide.

FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus (NIOSH approved or equivalent) and full protective gear. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

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

LARGE SPILL: Dike or contain release. Keep material out of lakes, streams, ponds, and sewer drains. Large spills should be covered to prevent dispersal. Absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel, or pump all waste material, including absorbent, into drums and label contents for disposal. Clean spill area of residues and absorbent.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Do not put concentrate or dilute into food or

drink containers. Avoid contamination of feed, foodstuffs and domestic water supplies. Store in a cool dry place, preferably in a locked storage area. Do not store diluted spray. Store above freezing. Handle concentrate in a ventilated area. Keep container closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.

PERSONAL PROTECTION

EYES AND FACE: For application of product diluted in accordance with label instructions, no special eye protection is needed. For manufacturing processes where contact may occur, workers should wear appropriate eye/face protection such as goggles or a face shield.

SKIN: Avoid contact with skin or clothing. In the workplace, skin contact should be minimized by wearing protective clothing including chemical resistant gloves.

RESPIRATORY: Handling of the undiluted product is not likely to present an airborne exposure concern under normal use conditions. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy vapor or mist, workers should use respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer. For application of product diluted in accordance with label instructions, no special respiratory protection is required. Read and follow label precautions.

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: Liquid

ODOR: Mild slightly sweet odor.

COLOR: Milky opaque white liquid.

pH: 5.86

PERCENT VOLATILE: Negligible

SOLUBILITY IN WATER: Emulsifiable

SPECIFIC GRAVITY: 1.001

VISCOSITY: 5.67 CPS at 24C

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Do not store below 32F.

INCOMPATIBLE MATERIALS: May react with strong acids, bases, or oxidizing agents such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Classified as non-irritating to both the unrinsed and rinsed albino rabbit eyes.

DERMAL LD₅₀: (Rabbits) >2,000 mg/kg body weight.

ORAL LD₅₀: Rats, >5.0 g/kg body weight.

INHALATION LC₅₀: EPA Toxicity Category IV - "Practically Nontoxic".

SKIN EFFECTS: No irritation noted at 72 hours in rabbits.

SENSITIZATION: Guinea pig - negative

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: None of the ingredients present in this product at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH, as being carcinogens.

COMMENTS: Acute toxicology information provided by MGK, McLaughlin Gormley King Company, MSDS No. 027783.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas. Do not contaminate water when disposing of equipment washers. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

GENERAL COMMENTS:

TOXIC EFFECTS ON ORGANISMS:

Fish LC50: 0.5 ug/L to 315 ug/L

Daphnia LC50: 0.02 ug/L

Bird LD50: > 3600 mg/kg

Bees: Extremely toxic.

Data provided for Permethrin, Technical 40/60, MGK Product Code 412203, 95.20% Permethrin (CAS# 052645-53-1), MSDS Date 3/3/99.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose in normal waste disposal. Do not reuse empty container. See label for specific product disposal recommendations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not DOT regulated when shipped by land in non-bulk packaging

MARINE POLLUTANT #1: Permethrin - Severe Marine Pollutant

OTHER SHIPPING INFORMATION: Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., (permethrin), 9, UN3082, PG III, Marine Pollutant, when transported by bulk or by vessel over water.

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%.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

CARCINOGEN: Permethrin has been designated as a possible human carcinogen (Group C) by the U.S. EPA.

16. OTHER INFORMATION

NFPA CODES

FIRE: 1 HEALTH: 1 REACTIVITY: 0

APPROVAL DATE: 04/24/2002

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.