MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Mosquito-B-Gon™ Tree and Shrub Spray Concentrate
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.: 239-739 PN: 1992

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt%</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malathion</td>
<td>50</td>
<td>121-75-5</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS: WARNING -
- CAUSES SUBSTANTIAL BUT TEMPORARY EYE DAMAGE
- HARMFUL IF SWALLOWED
- AVOID CONTACT WITH SKIN OR CLOTHING
- AVOID BREATHING VAPORS OR SPRAY MIST
- ILAMMABLE
- KEEP OUT OF REACH OF CHILDREN

POSSIBLE HEALTH EFFECTS
EYES: The undiluted product is moderately irritating to the eyes. Eye contact may include discomfort, tearing, swelling, redness, and blurred vision. See Toxicological Information, Section 11.

SKIN: This substance is a moderate skin irritant. Skin irritation may include discomfort, redness, swelling, and possibly blistering. See Toxicological Information, Section 11.

INGESTION: Depending upon the amount of product swallowed, this substance can produce signs and symptoms of systemic poisoning. In addition, the product contains a petroleum solvent that can directly enter the lungs if it is swallowed (this is called aspiration). This can occur during the act of swallowing or when vomiting the substance. Once in the lungs, the petroleum solvent is very difficult to remove and can cause severe injury to the lungs and death. See Toxicological Information, Section 11.

INHALATION: Prolonged or repeated inhalation exposure to the product vapor or spray mist may be harmful. See Toxicological Information, Section 11.

COMMENTS HEALTH: Depending upon the extent and degree of overexposure to the product, signs and symptoms of cholinesterase inhibition can result following either ingestion, skin contact or inhalation routes of exposure. Signs and symptoms of cholinesterase inhibition can also result from either acute (one time), subchronic (repeated short-term) and chronic (daily life-time) overexposure to the product. Signs and symptoms of cholinesterase inhibition usually occur within 12 hours following overexposure. These effects may include, but may not be limited to, headache, dizziness, weakness, nausea, vomiting, diarrhea, constriction of the pupil of the eye, blurred or dark vision, excessive salivation or nasal discharge, profuse sweating and abdominal cramps. Incontinence, unconsciousness, convulsions and breathing difficulties are indicative of severe poisoning. In unattended severe poisoning, death is due to respiratory failure or cardiac arrest. This product also contains a petroleum distillate. Depending upon the degree of overexposure, the systemic toxicity of the product may be of less concern than the potential clinical complications that can result from aspiration of the petroleum distillate into the lungs if the product is either swallowed or vomited.

file://P:\Production\InfoCenter\MSDS\ortho\03030.htm 6/15/2003
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: Remove skin or 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 material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is available. 2-PAM (PROTOTAMP) is also available and may be used in conjunction with atropine but should not be used alone. Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause 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 - any and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (100°F)

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

EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam and Water Fog.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce di-hydrochloride, sulfur dioxide, carbon monoxide, carbon dioxide, phosphorus-pentoxide and nitrogen oxides.

FIRE FIGHTING PROCEDURES: Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85°F. Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mist. Avoid personnel and equipment contact with falling and runoff. Minimize the amount of water used for fire fighting. Do not apply any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and order for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels or other absorbent material and discard in trash. Product is highly flammable. Keep all sources of ignition away from spill.

LARGE SPILL: Eliminate all sources of ignition in vicinity of spill or released vapor. Liquid spills on floor or other impervious surfaces should be contained or skied and should be absorbed with catgut, burlap or other absorbent material. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL." Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water. For liquid spills that soak into the ground, contact the applicable Federal, State or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL." for instructions. Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "DISPOSAL." Any recovered spilled liquid should be similarly collected and disposed of. Do not contaminate water, foodstuffs or feed by storage or disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Do not put concentrate or diluted product into food or drink containers. Store in a secure, preferably locked, storage area. Do not store diluted spray.

file:///P:/Production/InfoCenter/MSDS/ortho/03030.htm 6/15/2003

ORTHRO® Mosquito-B-Gon™ Tree and Shrub Spray Concentrate
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is normally required. However, if 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: Do not get this material in your eyes. Eye contact should be avoided by wearing chemical 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 respiratory 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):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malathion</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
<td>None</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Amber liquid with garlic-like odor

PERCENT VOLATILE: No Data Available

SOLUBILITY IN WATER: Miscible with water.

DENSITY: No Data Available

SPECIFIC GRAVITY: 1.040 to 1.055 g/ml at 20°C

VISCOSITY: Same as water.

COMMENTS:

pH: 5.0-8.0 (For a 1% Solution in 50/50 IPA/Water)

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: YES

POLYMERIZATION: May occur at temperatures above 165°C.

HAZARDOUS DECOMPOSITION: Thermal decomposition may produce dimethyl sulfoxide, sulfur dioxide, carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides.

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

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: The results of the rabbit eye studies indicate that, corneal involvement or irritation clearing in 8-21 days.

DERMAL LD₅₀: The results of the rabbit skin irritation test indicate mild to moderate skin irritation. The Draize irritation score (range 0-8) was 3.8. The dermal LD₅₀ in rabbits is greater than 2 g/kg.

ORAL LD₅₀: The oral LD₅₀ in male rats is 2,314 g/kg. The oral LD₅₀ in female rats is 2,13 g/kg.

INHALATION LC₅₀: The 4-hour inhalation LC₅₀ in rats is greater than 5 mg/l for the product diluted at a ratio of 1 to 2.5.

file:///P:/Production/InfoCenter/MSDS/ortho/03030.htm 6/15/2003
12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment washwaters. 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 if bees are visiting the treatment area.

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: If necessary to dispose of partially filled product container, securely wrap it in several layers of newspaper and discard in trash.

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME: Not DOT regulated when shipped by land in non-bulk packaging
U.S. SURFACE FREIGHT CLASS: Insecticides, Fungicides, Insect or animal repellents or venom exterminators, NOI, Other than poison
MARINE POLLUTANT #: Malathion - Marine Pollutant
OTHER SHIPPING INFORMATION: Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s., (malathion), S, 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

<table>
<thead>
<tr>
<th>ACUTE</th>
<th>CHRONIC</th>
<th>FIRE</th>
<th>REACTIVITY</th>
<th>PRESSURE GENERATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

313 REPORTABLE INGREDIENTS: Malathion (CAS No. 121-75-5)
TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA REGULATORY: All non FIFRA regulated components are on the US EPA’s TSCA Inventory List.

16. OTHER INFORMATION

NTPA CODES

FIRE: 3 HEALTH: 2 REACTIVITY: 0
APPROVAL DATE: 11/14/2002

REVISION SUMMARY Revision #: 3
This MSDS replaces the September 13, 2002 MSDS. Any changes in information are as follows:
In Section 3 (Group Field) for Flash Point Flash Point ‘F’ (From) Flammable Rate

ADDITIONAL MSDS INFORMATION: NFPA Hazard Rating: 0=Least, 1=SLight; 2=MODerate; 3=High, 4=SEvere

file://P:\Production\InfoCenter\MSDS\ortho\03030.htm 6/15/2003
ORTHO® Mosquito-B-Gon™ Tree and Shrub Spray Concentrate

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 of 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.

file://P:\Production\InfoCenter\MSDS\ortho03030.htm 6/15/2003