

# MATERIAL SAFETY DATA SHEET



DATE PREPARED: 08/29/2000  
MSDS No: 7029

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ORTHO® Roach, Ant & Spider Killer  
**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.:** 239-2679 **PN:** 2679

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Esfenvalerate	0.05	66230-04-4
Prallethrin (ETOC)	0.03	23031-36-9
MGK 264 Insecticide Synergist, N-octyl bicycloheptene dicarboximide	0.3	113-48-4
Other Ingredients	99.62	

**COMMENTS:** Other ingredients include petroleum distillate, deionized water, and proprietary ingredients.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** CAUTION: MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN CAUSES MILD EYE IRRITATION AND MODERATE SKIN IRRITATION REPEATED DERMAL EXPOSURE MAY CAUSE SKIN SENSITIZATION REACTION AVOID BREATHING VAPOR OR SPRAY MIST AVOID CONTACT WITH EYES, SKIN, OR CLOTHING KEEP OUT OF REACH OF CHILDREN.

### POTENTIAL HEALTH EFFECTS

**EYES:** This product may be mildly irritating to the eyes. Eye irritation may include; discomfort, redness, swelling and blurred vision. See Toxicology Section 11.

**SKIN:** This product is a moderate dermal irritant and repeated skin contact may cause an allergic skin reaction in some individuals. See Toxicological Information, Section 11.

**INGESTION:** If swallowed, this product may cause gastrointestinal tract irritation. See Toxicological Information, Section 11.

**INHALATION:** Overexposure to the spray mist may be irritating to the respiratory tract. See Toxicological Information, Section 11.

**COMMENTS HEALTH:** This product contains esfenvalerate, a cyano-pyrethroid that has the potential to cause temporary dermal paresthesia, e.g. burning, tingling, stinging sensations, that may occur following overexposure. However, using spray dilutions as indicated on the product label, it is unlikely that skin exposure to the spray mist will deliver sufficient concentrations of the active ingredient to trigger the dermal symptoms.

## 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 2001-1, January 2, 2001, and would apply in the event a product label is not immediately available.

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## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** <18 in. (non-flammable)

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

**FIRE FIGHTING PROCEDURES:** Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid 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. Read the entire document.

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## 6. ACCIDENTAL RELEASE MEASURES

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

**LARGE SPILL:** Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent clays. 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 and 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.

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## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Do not use near heat, open flame or any ignition source. Do not use around electrical equipment due to possible electrical shock hazard. Do not store near flame, sparks or hot surfaces. CONTAINER UNDER PRESSURE. Exposure to temperatures above 130° F may cause bursting. Do not puncture, incinerate, or store above 130°F.

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## 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:** For application of product in accordance with label instructions, no special eye protection is needed. Handling of the product is not likely to present an eye exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which could cause eye contact, workers should wear goggles or a face shield.

**SKIN:** No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing. Wash thoroughly with soap and water after handling.

**RESPIRATORY:** Handling of the product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy mist, workers should put on 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 in accordance with label instructions, no special respiratory protection is required.

**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>
Esfenvalerate	None	None	None
Prallethrin (ETOC)	None	None	None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Aerosol  
**ODOR:** Slight solvent odor.  
**APPEARANCE:** Clear liquid  
**pH:** 6.1  
**SOLUBILITY IN WATER:** Miscible with water.  
**DENSITY:** 8.27 lb./gal.

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Avoid contact with temperatures above 130° F. Contents under pressure.

**HAZARDOUS DECOMPOSITION:** No Data Available

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** Mild eye irritation (Rabbits): EPA FIFRA Toxicity Category IV - Minimal effects clearing in less than 24 hours.

**DERMAL LD<sub>50</sub>:** Dermal LD50 >2,000 mg/kg: EPA FIFRA Toxicity Category III. Dermal irritation: EPA FIFRA Toxicity Category III (Moderate dermal irritant).

**ORAL LD<sub>50</sub>:** This product is practically nontoxic if ingested. Rat Oral LD50 > 5000 mg/kg: EPA FIFRA Toxicity Category - IV.

**INHALATION LC<sub>50</sub>:** Rat LC50-4hrs.: greater than 2mg/liter. FIFRA Category IV, "practically non-toxic".

**SENSITIZATION:** Guinea pig - Not a dermal sensitizer.

### CARCINOGENICITY:

**CARCINOGENICITY COMMENTS:** Results of rat and mouse lifetime feeding studies did not demonstrate any evidence that fenvalerate (esfenvalerate major isomer) was associated with carcinogenic activity. The results of the rat and mouse chronic feeding studies indicated the NOELs (no observable effect levels) were 12.5 and 15 mg/kg/day, respectively. Based on the results of the investigations, EPA has classed fenvalerate in carcinogenicity class E (no evidence of carcinogenicity in either rats or mice). In addition, the chemical is not considered to be a carcinogen by IARC, NTP, OSHA or ACGIH.

**TERATOGENICITY:** Esfenvalerate is not considered to be a teratogen. Results of the rat and rabbit teratology investigations indicated that the NOEL's for maternal and developmental toxicity in both species were 2.0 and 20 mg/kg/dy (highest dose tested), respectively.

**REPRODUCTIVE TOXIN:** Results of the esfenvalerate 2-generation reproduction study demonstrated that the chemical was not associated with any adverse reproduction effects. The NOEL was 3.75 mg/kg/dy.

**MUTAGENICITY:** Based on the results of both in vivo and in vitro mutagenesis testing, esfenvalerate is not considered to be a mutagen.

**GENERAL COMMENTS:** Paresthesias: Esfenvalerate is a cyano-pyrethroid insecticide that has been associated with skin paresthesia in cases of extensive overexposure. The paresthesia symptoms are transient and consistent of tingling, burning, stinging sensations at the site of contact. The intensity of the sensory effect depends upon the extent of overexposure, individual skin sensitivity and environmental factors, e.g. hot, cold, pressure, etc. Clinically, the cutaneous sensations may be delayed a few hours, peak around 8-12 hours and remit within a few days. The sensations are usually not accompanied by a visible irritation or rash.

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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. This pesticide is classed as very low to slightly toxic to birds and highly toxic to bees by direct contact. Once foliar residue has dried, the hazard is insignificant.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Unused product may be disposed of by replacing cap, securely wrapping original container in several layers of newspaper and discarding in trash. Do not incinerate or puncture.

**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.

**EMPTY CONTAINER:** If recycling is not available, replace cap, wrap container and discard in trash.

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## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Consumer Commodity

**PRIMARY HAZARD CLASS/DIVISION:** ORM-D

**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:** 1 **HEALTH:** 1 **REACTIVITY:** 1

**APPROVAL DATE:** 03/08/2004

**REVISION SUMMARY** Revision #: 6 This MSDS replaces the April 09, 2001 MSDS. Any changes in information are as follows: In Section 11 Sensitization

**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.