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MATERIAL SAFETY DATA SHEET

DATE PREPARED: 08/29/2000

MSDS No: 7029

ORTHO® Roach, Ant & Spider Killer

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Roach, Ant & Spider Killer

PRODUCT DESCRIPTION: Insecticide

MANUFACTURER 24 HR. EMERGENCY TELEPHONE

NUMBERS

The ORTHO Group

P.O. Box 1749 Emergency Phone: 1-800-225-2883

Columbus, OH 43216

EPA REG. NO.: 239-2679 PN: 2679

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	CAS#
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: 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

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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. If inhaled, this substance is considered practically non-toxic to internal organs. See Toxicological Information, section 11.

COMMENTS HEALTH: This product contains esfenvalerate, a cyano-pyrethroid that has the potential to cause temporary dermal paresthesis, 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.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: <18 in. (non-flammable) EXTINGUISHING MEDIA: C02, dry chemical, and 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.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate, or store above 120 F. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of waste. For help with any spill, leak, fire or exposure involving this material, call day or night (800) 454-2333.

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 throughly 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 accidential 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

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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):

EXPOSURE LIMITS

Chemical Name OSHA PEL ACGIH TLV ACGIH STEL

Esfenvalerate None 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

DENSITY: 8.27 lb./gal.

COMMENTS:

WATER SOLUBILITY: Miscible in water

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with temps. above 130F. 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 LD₅₀: Dermal LD50 >2,000 mg/kg: EPA FIFRA Toxicity Category III. Dermal irritation:

EPA FIFRA Toxicity Category III (Moderate dermal irritant).

ORAL LD₅₀: This product is practically nontoxic if ingested. Rat Oral LD50 > 5000 mg/kg: EPA

FIFRA Toxicity Category - IV.

INHALATION LC₅₀: Rat LC50-4hrs.: greater than 2mg/liter. FIFRA Category IV, "practically non-toxic".

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SENSITIZATION: Guinea pigs - skin sensitization response observed.

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 carcingenicity 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.

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.

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.

trash.

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

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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.

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.

16. OTHER INFORMATION

HMIS CODES

FIRE: 1 HEALTH: 1 REACTIVITY: 1 PROTECTION: 0

NFPA CODES

FIRE: 1 HEALTH: 1 REACTIVITY: 1 APPROVAL DATE: 04/09/2001

REVISION SUMMARY Revision #: 5

This MSDS replaces the November 02, 2000 MSDS. Any changes in information are as follows: In Section 14

DOT Proper Shipping Name DOT Primary Hazard Class/Division DOT UN/NA Number DOT Packing Group

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