MATERIAL SAFETY DATA SHEET

DATE PREPARED: 10/26/2000

MSDS No: 7038

Ortho® RosePride® Funginex® Rose & Shrub Disease Control Concentrate

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ortho® RosePride® Funginex® Rose & Shrub Disease Control Concentrate
PRODUCT DESCRIPTION: Fungicide

MANUFACTURER

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

EPA REG. NO.: 239-2435 **PN:** 6071

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone: 1-800-225-2883

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#
Triforine	6.5	26644-46-2
INERT INGREDIENTS	~93.5	

``Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Light amber liquid
IMMEDIATE CONCERNS: - KEEP OUT OF REACH OF CHILDREN
- CONTENTS UNDER PRESSURE

POTENTIAL HEALTH EFFECTS

EYES: This substance is a severe eye irritant and could cause permanent damage to your eyes and

blindness. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Symptoms of overexposure may include discomfort, irritation and redness, and blurred vision. See Toxicological Information, section 11.
SKIN: This substance is not expected to cause prolonged or significant skin irritation. This substance is slightly toxic to internal organs if absorbed through the skin. The degree of injury will depend on the amount absorbed. See Toxicological Information, section 11.
INGESTION: This substance is slightly toxic to internal organs if swallowed. See Toxicology Information, section 11.
INHALATION: This substance may be slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. This substance may be irritating if inhaled. See Toxicological Information, section 11.

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 of 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: 147°F TAG CC
EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Water Fog
HAZARDOUS COMBUSTION PRODUCTS: Hydrochloric acid gas may be formed in a fire.
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.

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 diked, and should be absorbed with attapulgite, bentonite 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 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.

Do not contaminate water, foodstuffs or feed by storage or disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Avoid contamination of feed and foodstuffs. Store in a secure cool, dry place. Do not store diluted spray.

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: Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all times.

SKIN: Avoid contact with skin or clothing. 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 during normal handling. In the event of an accidential discharge of the material during manufacture or handling which produces a heavy vapor or 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 diluted 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

Triforine	None	None	None
Cyclohexanone	200 mg/m3	100 mg/m3	
N-Methyl Pyrrolidone	None	None	None
Atlox 3406-F	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Hydrocarbon Solvent
APPEARANCE: Light amber liquid
pH: No Data Available
PERCENT VOLATILE: No Data Available
VAPOR PRESSURE: No Data Available
VAPOR DENSITY: No data Available
BOILING POINT: No Data Available
FREEZING POINT: <25°F
MELTING POINT: No Data Available
SOLUBILITY IN WATER: Miscible with water.
EVAPORATION RATE: No Data Available
SPECIFIC GRAVITY: 1.01 gr/cc at 20°C
VISCOSITY: No Data Available

10. STABILITY AND REACTIVITY

STABLE: YES
HAZARDOUS POLYMERIZATION: NO
CONDITIONS TO AVOID: No data available.
HAZARDOUS DECOMPOSITION: Hydrochloric acid gas may be formed in a fire.
INCOMPATIBLE MATERIALS: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Corrosive (irreversible destruction of ocular tissue); corneal involvement and irritation persisting for more than 21 days.
DERMAL LD_{50}: Mild to slight irritation at 72 hours. The dermal LD50 in rabbits is 2 - 5 g/kg.

ORAL LD_{50}: The oral LD50 in female and male rats is 1.61 and 1.95 g/kg, respectively.

INHALATION LC_{50}: The 4-hour Inhalation LC50 in rats is 2.6 mg/l (dilute).

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.
ECOTOXICOLOGICAL INFORMATION: The active ingredient in this product "Triforine" has a low toxicity to plants, mammals, birds, beneficial insects and aquatic animals. (Data supplied by Shell International Chemical Company Ltd.)

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 throughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Not Regulated
PRIMARY HAZARD CLASS/DIVISION: None
UN/NA NUMBER: None
PACKING GROUP: No
U.S. SURFACE FREIGHT CLASS: Insecticides, Fungicides, Insect or animal repellents or vermin exterminators, NOI, Other than poison
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: YES	REACTIVITY: NO	PRESSURE GENERATING: NO

313 REPORTABLE INGREDIENTS: Triforine. (CAS 26644-46-2) 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.

16. OTHER INFORMATION

HMIS CODES

FIRE: 2 **HEALTH:** 3 **REACTIVITY:** 0 **PROTECTION:** -

NFPA CODES

FIRE: 2 **HEALTH:** 3 **REACTIVITY:** 0 **SPECIAL:** -

APPROVAL DATE: 10/26/2000

REVISION SUMMARY New MSDS

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