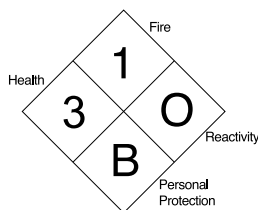


MATERIAL SAFETY DATA SHEET

MULTICIDE ULTRA

(Concentrate form)



SECTION I – Distributor

Biotrol
13705 Shoreline Court East, Earth City, MO 63045
1-800-822-8550

SECTION II – Hazardous Ingredients/Identity

Hazardous Component(s) (chemical and common names)	OSHA PEL	ACGIH TLV	% by Wt.	CAS NO.
*#2-phenylphenol	N/A	N/A	9.09	90-43-7
p-tertiary amyphenol	N/A	N/A	7.66	80-46-6
potassium hydroxide	N/A	2mg/m ³ ceiling	5.00	1310-58-3
sodium hydroxide	2mg/m ³	2mg/m ³ ceiling	<2.00	1310-73-2

*Ingredient subject to reporting under Section 313 of Title III (SARA) and 40 CFR 372.

Occupational Exposure Limits: Potassium hydroxide ACGIH and OSHA STEL 3mg/m³

Hazards Identification: Severely irritating to eyes and skin (concentrate form).

Transport Information: Ground/air/sea. Non-hazardous.

Regulatory Information: USA State Regulations: May contain trace levels of formaldehyde.

SECTION III – Physical & Chemical Characteristics

Solubility in Water: Complete **Specific Gravity (H₂O=1@25°C.):** 1.10

Freezing Point F.: 20°F. **% Volatile by wt. @ 105°C./2 hr.:** 70%

pH @ 1.128 Soln: 10.6 **pH as Distributed:** 12.3

Appearance: Red liquid **Odor:** Mild and pleasant

This product will withstand an occasional accidental freezing without loss in its normal performance characteristics. It must be thoroughly thawed and agitated (roll drum) before being used.

SECTION IV – Fire & Explosion Data

Flash Point: Not flammable

Flammable Limits: N/A LEL UEL

Extinguishing Media: Suitable for surrounding fire – water, CO₂, foam, dry chemical

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

SECTION V – Physical Hazards (Reactivity Data)

Stability: Stable

Conditions to Avoid: None known

Incompatibility: Reaction with caustic can create heat

Hazardous Polymerization: Will not occur

Hazardous Decomposition or Byproducts: Forced ignition of dried residues may produce CO, CO₂, sulfur oxides.

SECTION VI – Health Hazards

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects)

ACUTE (Primary Route of Exposure) Concentrate corrosive to tissues.

Revision issued: RevB 03/06 (Supercedes: 08/02)

SECTION VI – Health Hazards (continued)

Eyes and Skin: Use-dilution slightly irritating to eyes. Concentrate corrosive to skin and eyes.

Inhalation: Inhalation toxicity >54 ml/liter at 1:200 for 4 hours. Mists may irritate nasal passages.

Ingestion: Oral LD₅₀ (rats) 4,500 mg/kg. Causes upset to stomach.

Chemical Listed as Carcinogen or Potential Carcinogen: I.A.R.C. , NTP and OSHA do not list this product or its ingredients as carcinogens. #2-phenylphenol produced urinary bladder tumors in male rats and liver tumors in male mice when fed exaggerated doses.

SECTION VII – Emergency and First Aid Procedures

Eyes: In case of contact, immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Skin: In case of contact, immediately flush with plenty of water for at least 15 minutes. Immediately remove and wash contaminated clothing before reuse.

Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion: If swallowed, **DO NOT INDUCE VOMITING.** Drink large quantities of milk or water and call a physician. Do not give anything by mouth to an unconscious person.

SECTION VIII – Special Precautions and Spill/Leak Procedures

Precautions to be Taken in Handling and Storage: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Spill Management: Ensure suitable personal protection during removal of spillages. Spills should be contained and may be cautiously neutralized with sodium bicarbonate, or absorbed on appropriate material and placed in a container for disposal. Spills may be picked up with a mop and followed by a water rinse. Washings should be prevented from entering surface water/storm drains. Small spills may be flushed to a sanitary sewer with copious amounts of water.

Waste Disposal Methods: Do not contaminate ponds, waterways or ditches with chemical or used containers. Empty containers should be rinsed thoroughly and discarded in appropriate waste container. (Containers may be offered for reconditioning/recycling.) Empty containers should not be used for other purposes. Unused material may be a hazardous waste due to its low pH and subsequent corrosivity. Disposal of product should be done in accordance with local, state or national legislation. For additional guidance, contact State Water Board or the Regional office of the EPA.

SECTION IX – Special Protection Information/Control Measures

Ventilation: Normal room ventilation

Respiratory Protection: None normally required.

Eyes: Safety glasses or goggles

Protective Gloves: Rubber

Other Clothing and Equipment: Mists of use-solutions may be irritating to nasal passages and lungs.

******IMPORTANT******

While seller believes that the information contained herein is accurate, such information is offered solely for its customers' consideration and verification under their specific use conditions. This information is not deemed a warranty or representation of any kind for which seller assumes legal responsibility.

 **BIOTROL**

24-Hour Emergency No. (U.S.) 1-800-535-5053
(Outside U.S.) 352-323-3500

QUESTIONS or COMMENTS? 1-800-822-8550