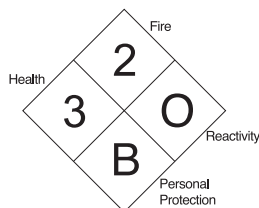


MATERIAL SAFETY DATA SHEET

BIREX^{se} (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 Weight	CAS NO.
p-tertiary amylphenol	N/A	N/A	7.6%	80-46-6
#2 - phenylphenol	N/A	N/A	7.7%	90-43-7
#phosphoric acid*	1mg/m ³	1mg/m ³	15.0%	7664-38-2
isopropanol (Propan-2-ol)**	400ppm	400ppm	7.5%	67-63-0
dodecyl sulfonic acid	N/A	N/A	>5%	27176-87-0

* STEL = 3mg/m³

** STEL = 500ppm

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

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

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

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

SECTION III – Physical & Chemical Characteristics

Boiling Point: 212°F.

Specific Gravity: 1.108

Vapor Pressure/Density: N/A

Solubility in Water: Complete

Freezing Point: 0-15°F. Product will withstand an occasional accidental freezing without loss in its normal performance characteristics. It must be thoroughly thawed and agitated before being used.

Appearance and Odor: pH 1.0 (Concentrate form); pH 2.6 (Use-solution form – 1:256). Yellow to amber liquid; mild, pleasant odor.

SECTION IV – Fire & Explosion Data

Flash Point F.: 111° F (44°C)

Method Used: Closed Cup (does not support combustion)

Flammable Limits in Air % by Volume – LEL Lower: N/A

Extinguishing Media: Foam, CO₂

Auto-ignition Temperature; Special Fire Fighting Procedures; Unusual Fire and Explosion Hazards: N/A

SECTION V – Physical Hazards (Reactivity Data)

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility: Strong oxidizers and alkaline chemicals. This is a complete product. Do not add other chemicals to concentrate or use-solutions.

Hazardous Decomposition Products: Forced ignition of dried residues may produce CO₂ and SO₂.

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

SECTION VI – Health Hazards

Acute: Concentrate corrosive to tissues.

Signs and Symptoms of Exposure: Use-dilution slightly irritating to eyes. Concentrate severely irritating to skin and eyes. Will cause upset to stomach.

Chemical Listed as Carcinogen or Potential Carcinogen: National Toxicology Program; I.A.R.C. Monographs 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 First Aid Procedures

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

Eyes and Skin: Immediately flush with plenty of water for at least 15 minutes. Call a physician. Remove and wash contaminated clothing before reuse.

Ingestion: DO NOT INDUCE VOMITING. Drink large quantities of 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 Storing: Do not contaminate food, water or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. 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. Flush spill site with large quantities of water to a sanitary sewer. Washings should be prevented from entering water/storm drains. Local regulations should be observed.

Waste Disposal Methods: Waste solutions may be sewered with copious amounts of water if in accordance with state, local and federal regulations. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

Other Precautions: Read and observe all labeled precautions.

SECTION IX – Special Protection Information/Control Measures

Ventilation: Adequate ventilation to maintain air concentrations below established limits.

Eye Protection: Safety glasses or goggles.

Protective Gloves: Rubber gloves recommended.

Respiratory Protection: Not required.

Other Protective Clothing and Equipment: N/A.

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