

# MATERIAL SAFETY DATA SHEET

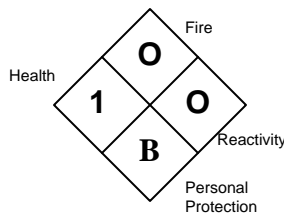
## BIREXse

CATALOG NUMBER: BI024, BI025, BI048, & BC144

(Use Solution Form)

### SECTION I – Distributor

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



### SECTION II – Hazardous Ingredients / Identity

Hazardous Components(s) (Chemical and common names)	OSHA PEL	ACGIH TVL	% by Weight	CAS Number
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 <sup>3</sup>	1mg/m <sup>3</sup>	15.0%	7664-38-2
Isopropanol (Propan-2-ol)**	500ppm	200ppm	7.5%	67-63-0
Dodecylbenzene sulfonic acid	N/A	N/A	< 5%	68584-22-5

\*ACGIH STEL and OSHA STEL = 3 mg/m<sup>3</sup>

\*\*ACGIH STEL = 500 ppm

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

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

**US EPA Regulations:** #2 – Phenylphenol subject to reporting under Sec. 313 of Title III (SARA) and 40 CFR 372.

### SECTION III – Physical & Chemical Characteristics

**Boiling Point:** 212 °F      **Solubility in Water:** Complete  
**Specific Gravity:** 1.108      **Vapor Pressure / Density:** Unknown  
**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). Colorless to slightly hazy liquid; mild, pleasant odor.

### SECTION IV – Fire & Explosion Data

**Flash Point:** 111 °F (44 °C)      **Method:** Closed Cup  
**Flammable Limits in Air % by Volume:** Does not support combustion  
**Extinguishing Media:** Foam, CO<sub>2</sub>  
**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  
**Hazardous Decomposition Products:** Forced ignition of dried residues may produce CO<sub>x</sub> and SO<sub>x</sub>.  
**Conditions / Materials to Avoid:** Strong oxidizers and alkaline chemicals. This is a complete product. Do not add other chemicals to concentrate or use-solutions.

### SECTION VI – Health Hazards

**Acute:** Concentrate severely irritating to tissues

**Signs and symptoms of exposure:**

**Skin / Eye contact** – Concentrate severely irritating to skin and eyes. Use-solution slightly irritating to eyes.

**Ingestion** – Oral LD<sub>50</sub> = 6,000 mg/kg (male rat); 4,330 mg/kg (female rat)  
Will cause upset to stomach.

**Inhalation** – Inhalation toxicity > 62 mg/l @ 1:256 for 4 hours. Mists of use-solution may be irritating to nasal passages and lungs.

**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

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

**Eye Contact:** Flush eyes immediately with water for at least 15 minutes. Get medical attention if irritation develops.

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

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

### 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. Local regulations should be observed.

**Spill Management:** May be cleaned up with flowing water.

**Waste disposal method:** Waste solutions may be sewerred

**Other Precautions:** Read and observe all labeled precautions.

### SECTION IX – Special Protection Information / Control Measures

**Eye Protection:** Goggles or safety glasses.

**Protective Gloves:** Rubber gloves recommended.

**Ventilation:** Normal

**Other Protective Clothing and Equipment:** N/A

**Respiratory Protection:** Not Required.

World Hygienic Practices: Common sense for safety

\*\*\*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? 1-800-325-1881