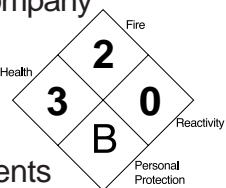


**MATERIAL SAFETY DATA SHEET****BIREXse®****ONE-STEP GERMICIDAL DETERGENT****SECTION I – Identification of the Substance and Company**

Distributed by

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Prepared by: Mike Ebers

**SECTION II – Composition/Information on Ingredients**

| Hazardous Component(s)       | CAS No.    | % By Wt. |
|------------------------------|------------|----------|
| p-tertiary amyphenol         | 80-46-6    | 7.6      |
| #2-phenylphenol              | 90-43-7    | 7.7      |
| Phosphoric acid              | 7664-38-2  | 15.0     |
| Isopropanol (Propan-2-ol)    | 67-63-0    | 7.5      |
| Dodecylbenzene sulfonic acid | 68584-22-5 | >5       |

**SECTION III – Hazards Identification**

Severely irritating to eyes and skin. Combustible.

**SECTION IV – First Aid Measures****Eye Contact:** Flush eyes immediately with water for at least 15 minutes. Get medical attention if irritation develops.**Skin Contact:** Flush skin immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops.**Inhalation:** Remove patient to fresh air. If not breathing, give artificial respiration. Get medical attention.**Ingestion:** Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person. If conscious, drink large quantity of milk or water.**SECTION V – Fire-Fighting Measures****Flash Point:** 111°F (44°C) (Closed Cup) (Does not support combustion)**Extinguishing Media:** Foam, CO<sub>2</sub>.**SECTION VI – Accidental Release Measures**

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 surface water/storm drains. Local regulations should be observed.

**SECTION VII – Handling and Storage****7.1 Handling**

Product will withstand an occasional accidental freezing. It must be thoroughly thawed and agitated before being used.

**7.2 Storage**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**SECTION VIII – Exposure Control/Personal Protection****8.1 Occupational Exposure Limits****Isopropanol:** ACGIH TLV, OSHA PEL = 400 ppm; ACGIH STEL = 500 ppm**Phosphoric acid:** ACGIH TLV, OSHA PEL = 1 mg/m<sup>3</sup>; ACGIH STEL, OSHA STEL = 3 mg/m<sup>3</sup>**8.2 Personal Protection****Respirator Protection:** Not required. **Eye Protection:** Safety glasses or goggles.**Protective Gloves:** Rubber **Other Protective Clothing and Equipment:** NA**Ventilation:** Adequate ventilation to maintain air concentrations below established limits.**SECTION IX – Physical and Chemical Properties****Solubility in Water:** Complete **Specific Gravity:** Approximately 1.108**Appearance/Odor:** Yellow to amber liquid/Mild and pleasant odor.**pH: (Concentrate):** Approximately 1.0 (1% solution): 2.6**SECTION X – Stability and Reactivity****Stability:** Stable**Hazardous Polymerization:** Will not occur.**Incompatible Materials:** Strong oxidizers and alkaline chemicals.**Conditions to Avoid:** None known.**Hazardous Decomposition or Byproducts:** Forced ignition of dried residues may produce CO<sub>x</sub> and SO<sub>x</sub>.**SECTION XI – Toxicological Information****11.1 Acute (Primary Routes of Exposure)****Eyes:** Use dilution slightly irritating to eyes. Concentrate severely irritating to eyes.**Skin:** Concentrate severely irritating to skin.**Inhalation:** Inhalation toxicity >62ml/l @ 1:256 for 4 hours. Mists of use-solution may be irritating to nasal passages and lungs.**Ingestion:** Oral LD<sub>50</sub> = 6,000 mg/kg (male rat); 4,330 mg/kg (female rat). Will cause upset to stomach.**11.2 Long Term Exposure****Carcinogenicity:** IARC, 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 XII – Ecological Information**

None available

**SECTION XIII – Disposal Considerations**

Do not contaminate ponds, waterways, or ditches with chemical or used containers. Empty containers should be rinsed thoroughly and discarded in an 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 wanted product should be done in accordance with local, state or national legislation. Product may be flushed to a sanitary sewer 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.

**SECTION XIV – Transport Information****Ground/Air/Sea:** Non-hazardous**SECTION XV – Regulatory Information****USA State Regulations:** May contain trace levels of formaldehyde.**SECTION XVI – Other Information**

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.

NA - Not Applicable

ND - No Data

**\*\*\*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.

24-Hour Emergency No. (U.S.) 1-800-424-9300  
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QUESTIONS or COMMENTS? 1-800-822-8550