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5785-57

Page 184

**BROMICIDE**

For Control of Algal, Bacterial and Fungal Slimes in Recirculating Cooling Water Systems, Once-Through Industrial Cooling Water Systems and Paper and Paperboard Process Water.

**ACTIVE INGREDIENT:**

1-Bromo-3-chloro-5,5-dimethylhydantoin 96.0%

**INERT INGREDIENTS:**

4.0%

Total

100.0%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

**If Swallowed:** Seek medical attention promptly. Do not induce vomiting. Do not drink alcohol. Drink at least 8 ounces of water (not to exceed 0.23 oz. per pound in a child).

**If On Skin:** Remove contaminated clothing immediately. Brush off excess chemical and wash skin with large volumes of soap and water, flushing the skin with water for at least 15 minutes. If skin irritation develops, seek medical attention.

**Eye Contact:** Irrigate eyes with large volumes of room temperature water for at least 15 minutes, then seek medical attention immediately.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

**SEE OTHER PRECAUTIONS ON BACK PANEL**

Net Weight \_\_\_\_\_

EPA Reg. No. 5785-57

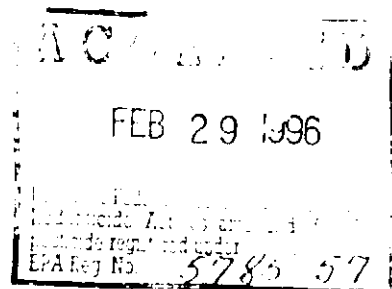
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EPA Est. No. 5785-MI-1

Great Lakes Chemical Corporation  
P.O. Box 2200  
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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER. CORROSIVE.** Causes eye and skin damage. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling.



**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS**

Strong oxidizing agent. Mix only with water. Use clean, dry utensils and equipment. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire and explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, hazardous gases and possible fire and explosion. In case of contamination of decomposition, do not reseal the container. If possible, isolate container in open air or well ventilated area. If necessary, flood with large volumes of water.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL**

**STORAGE:** Keep product dry in tightly closed container when not in use. Store in cool, dry well ventilated area away from heat, open flames, organic chemicals and sunlight. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **DO NOT REUSE EMPTY CONTAINER.** Triple rinse the container (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incinerate. Burn only if allowed by state and local authorities. If burned, stay out of smoke.

**RECIRCULATING COOLING WATER SYSTEMS**

When used as directed, Bromicide effectively controls algal, bacterial and fungal slimes in commercial and industrial cooling towers; influent water systems such as flow through filters, and lagoons, etc.; heat exchange water systems; industrial water scrubbing systems; brewery pasteurizers; and industrial air washing systems equipped with a mist eliminator.

**ONCE THROUGH COOLING WATER SYSTEMS**

For the control of algal, bacterial and fungal slimes in once-through and closed-cycle fresh and sea water cooling systems; cooling ponds; canals; and lagoons, add Bromicide to the system inlet water or before any other contaminated area in the system.

**DOSEAGE RATES**

Initial Dose: When system is noticeably fouled, add 0.2-0.6 lbs/1000 gallons of water contained in the system. Repeat initial dosage until one to three ppm bromine residual is established for at least 4 hours.

Subsequent Dose: When microbial control is evident, add 0.1-0.3 lbs/1000 gallons of water contained in the system. Repeat as needed to maintain one to three ppm bromine residual for at least 4 hours.

### WASTEWATER TREATMENT SYSTEMS

When used as directed, Bromicide effectively controls algal, bacterial and fungal slimes and offers rapid disinfection of primary, secondary and tertiary wastewater treatment systems.

### DOSAGE RATES

Add 0.1 to 0.6 lbs/1000 gallons (0.24 to 0.72 kg/10,000 L) of water treated to maintain a 0.5 to 5.0 mg/L bromine residual at the injection point in the disinfection contact chamber. Adjust the Bromicide dosage to achieve disinfection and minimize the halogen concentration at the exit of the contact chamber. Do not use treated wastewater to irrigate crops.

Treatment levels can be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions.

1. When a bromine test kit is used, results can be read directly as ppm bromine.
2. When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.

### PULP AND PAPER MILLS

Bromicide effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems; cooling water systems, wastewater treatment systems, service water systems, white water systems, and other process water.

This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products that do not contact food. Treat water at critical areas in the system process where mixing of the product with influent will be uniform. The frequency and duration of the treatment will depend upon the severity of the problem. Badly fouled process systems must be cleaned before initial treatment.

**[NOTE: Either one or both of the following treatment methods may be included on the label]**

### TREATMENT BY SYSTEM VOLUME

When a system is noticeably fouled: add 0.1 to 1.0 pounds of Bromicide to 1,000 gallons or 12 to 120 parts per million of water in the system.

When biological control is evident: add 0.1 to 0.75 pounds of Bromicide to 1,000 gallons or 12 to 90 parts per million of water in the system.

### TREATMENT BY RESIDUAL METHOD

Add sufficient Bromicide to maintain a measured residual up to 5 ppm as bromine. Once biological control is evident, the use of Bromicide normally can be reduced to something less than 1 ppm as bromine.

**[OPTIONAL STATEMENT]**

An alternate method of calculating the appropriate level of Bromicide is to estimate the paper mill's daily production, then add, over a 24 hour period, up to 600 grams (1.3 pounds) of Bromicide per dry ton of paper produced over a twenty-four (24) hour period. Test for bromine to verify the level of 5 ppm is not being exceeded.

Available Bromine: 60% Available Chlorine: 28%

**NOTE:** Seller warrants that this product complies with the specifications expressed in this label. Seller makes no other warranties; and disclaims all other warranties, expressed or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. Seller's liability for default, breach, or failure under this label shall be limited to the amount of the purchase price. Seller shall have no liability for consequential damages.