

PM

32

5785-65

Page 174

IWT BCDMH GRANULES

For Use as a Disinfectant, Sanitizer, Bactericide, Fungicide, Slimicide, Algicide, and Mollusk Control Agent in recirculating cooling water systems and once through Cooling Water and Wastewater Treatment Systems and Paper and Paperboard Process Water.

ACTIVE INGREDIENT:

1-Bromo-3-chloro-5,5-dimethylhydantoin 93.5%

INERT INGREDIENTS:

Total 6.5%
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 promptly.

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

SEE OTHER PRECAUTIONS ON SIDE PANEL

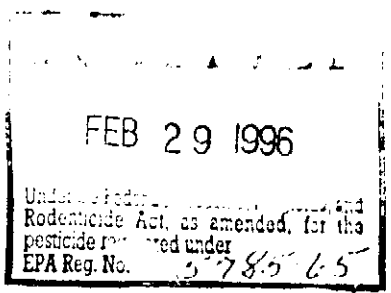
Net Weight _____
Lot No. _____

EPA Reg. No. 5785-65
EPA Est. No. 5785-MI-1

GREAT LAKES CHEMICAL CORPORATION
P.O. Box 2200
West Lafayette, IN 47906

**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 (Brominator)

Strong oxidizing agent. Mix only with water. Use clean, dry utensils and equipment. DO NOT ADD OTHER PRODUCT TO THIS DISPENSING DEVICE. 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 or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. If necessary, flood with large volumes of water.

PHYSICAL AND CHEMICAL HAZARDS (Granules pails/drums/bags)

Strong oxidizing agent. Mix only with water. Use clean, dry utensils and equipment. DO NOT ADD OTHER PRODUCT TO THIS 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 or decomposition, do not reseal 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 HANDLING DISPOSAL (Brominator)

STORAGE. Keep product dry in tightly closed original container when not in use. Store in a 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.

The application to water is accomplished using the returnable, closed system Transportable Brominator.

Installation Procedure:

Keep all valves in closed position. Attach level indicator/pressure relief valve to flange on upper side of brominator. Attach quick connect fittings to distribution header. Open both distributor header valves. Slowly open service water line and adjust to desired flow.

Flushing Procedure:

Close off water supply line. Close effluent valve on brominator. Detach quick connect fitting from effluent side and attach it to the center drain connection. Open drain to position valve. Open service water to allow for maximum flow through the unit for 15 minutes to assure all product is dispensed from the brominator into the treated water system.

Disconnect Procedure:

Shut off supply water. Make sure all valves on brominator are in closed position. Use center drain to empty the container completely of all water and product residual. Close center drain to position valve and disconnect all lines. Remove level indicator and pressure relief valve from flange on upper side of brominator. Attach the flange cap.

DISPOSAL. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Return Transportable Brominator for refilling.

STORAGE AND HANDLING DISPOSAL (Granules pails/drums/bags)

STORAGE. Keep product dry in tightly closed original container when not in use. Store in a 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. (Pails/drums) 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.

DISPOSAL. (Bags) Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

RECIRCULATING COOLING WATER SYSTEMS

When used as directed, IWT BCDMH Granules effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers, cooling ponds, influent water systems including flow through filters, heat exchangers, industrial water scrubbing systems, brewery pasteurizers and industrial air washers equipped with mist eliminators. Add IWT BCDMH Granules using a bypass feeder or broadcast into an open area in the system such as a cooling tower basin or deck, where sufficient agitation is present to promote rapid mixing and dissolution.

ONCE-THROUGH COOLING WATER SYSTEMS

When used as directed, IWT BCDMH Granules effectively controls algal, bacterial and fungal slimes in open or closed-cycle, fresh or salt water, once-through cooling systems. Add IWT BCDMH Granules to the system inlet water or before any other contaminated area in the system.

DOSAGE RATES

Initial Dose: When the system is noticeably fouled, add 0.2 to 0.6 lbs/1000 gallons (0.24 to 0.72 kg/10,000L) of water contained in the system. Repeat initial dosage until one to three ppm bromine residual is established for at least four hours.

Subsequent Dose: When microbial control is evident, add 0.1 to 0.3 lbs/1000 gallons (0.12 to 0.36 kg/10,000 L) of water contained in the system. Repeat as needed to maintain one to three ppm bromine residual for at least four hours.

WASTEWATER TREATMENT SYSTEMS

When used as directed, IWT BCDMH Granules 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 IWT BCDMH Granules 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

IWT BCDMH Granules 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 IWT BCDMH Granules 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 IWT BCDMH Granules to 1,000 gallons or 12 to 90 parts per million of water in the system.

TREATMENT BY RESIDUAL METHOD

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

[OPTIONAL STATEMENT]

An alternate method of calculating the appropriate level of IWT BCDMH Granules is to estimate the paper mill's daily production, then add, over a 24 hour period, up to 600 grams (1.3 pounds) of IWT BCDMH Granules 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.

NOTE: Seller warrants that this product complies with the specifications expressed in this label. Seller makes no other warranties; and disclaims all other warranties, express 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.