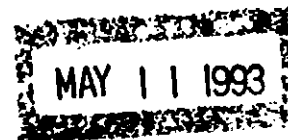


Great Lakes Chemical Corporation
P. O. Box 2200
West Lafayette, IN 47906



Attn: Berma L. Zootman
Registration Specialist

Subject: IWT BCDMH Granules
EPA Registration No. 5785-65
Your Amendment Application Dated November 30, 1992
(BLZ-92-414)

This is in response to your request for a basic product name change including an alternate "Storage and Disposal Statement" and additional brand names.

The additional brand names "BromiCide Granules" and "Transportable Brominator with BromiCide Granules" have been noted and made part of the subject registration. However, please note that a separate application form (EPA Form 8570-1) and a cover letter are required to notify the Agency of additional brand names. Please refer to PR Notice 88-6 for procedures regarding notifications. (A copy of PR Notice 88-6 is enclosed for your convenience).

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment bearing the amendment labeling.

- 1) The revised Storage and Disposal instructions to include pails, drums and bags are acceptable. However, group pesticide disposal instructions under the heading "Pesticide Disposal" and container disposal instructions under the heading "Container Disposal".
- 2) The statement "Do Not contaminate water, food or feed by storage or disposal" should be placed directly below the Storage and Disposal heading.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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- 3) Revise the sentence under Physical & Chemical Hazards which reads "DO NOT ADD OTHER PRODUCTS TO THIS DISPENSING DEVICE" to read "DO NOT ADD OTHER PRODUCTS TO ANY DISPENSING DEVICE CONTAINING REMNANTS OF ANY OTHER PRODUCT".
- 4) The change in product name from "BromiCide Granules" to "IWT BCDMH Granules" is acceptable. The registration records for this product have been amended accordingly.

Should you have questions call Arvella Farmer at (703) 305-6939.

Sincerely yours,

Ruth G. Douglas
 Product Manager 32
 Antimicrobial Program Branch
 Registration Division (H7504C)

Enclosures

CONCURRENCES

| SYMBOL | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|
| SURNAME | | | | | | | | |
| DATE | | | | | | | | |

PM32

5785-65

IWT BCDMH GRANULES

For Use as a Disinfectant, Sanitizer, Bactericide, Slimecide,
and Algicide in Recirculating Cooling Water Systems and
Once Through Cooling Water and Wastewater Treatment Systems

| | | |
|--|--------------|---------------|
| Active ingredient: | | |
| 1-Bromo-3-chloro-5,5-dimethylhydantoin | | 93.5% |
| Inert ingredients | | <u>6.5%</u> |
| | TOTAL | 100.0% |

Available Bromine: 62%

Available Chlorine: 28%

**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).
- SKIN CONTACT:** 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 ADDITIONAL PRECAUTIONARY STATEMENTS ON SIDE PANEL

NET WEIGHT _____

EPA REG. NO. 5785-65

LOT NO. _____

EPA EST. NO. 5785-MI-1

GREAT LAKES CHEMICAL CORPORATION
P.O. Box 2200
WEST LAFAYETTE, IN U.S.A. 47906

BCDMHGRN

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. Causes eye and skin irritation. If swallowed, may cause severe damage to the respiratory tract. Do not get in eyes, on skin, or on clothing. Wear eye protection, gloves, and a respirator shield and rubber gloves when handling. Irritation may be aggravated by breathing dust. Remove and wash contaminated clothing thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluents into lakes, streams, ponds, estuaries, oceans or public waterways specifically identified and addressed in an NPDES permit. Do not contain this product to sewer systems without the approval of the treatment plant authority. For guidance, contact the Regional Office of EPA.

PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent. Mix only with water. Do not use in confined equipment. **DO NOT ADD OTHER PRODUCTS TO THIS PRODUCT.** Use may cause a violent reaction leading to fire and explosion. Moisture, organic matter or other chemicals may cause the generation of heat, hazardous gases and possible contamination or decomposition, do not reseal container in open air or well ventilated area. If necessary, flood with large amount of water.

PHYSICAL AND CHEMICAL HAZARDS (Gross Weight)

Strong oxidizing agent. Mix only with water. Do not use in confined equipment. **DO NOT ADD THIS PRODUCT TO OTHER PRODUCTS CONTAINING REMNANTS OF ANY OTHER PRODUCTS.** Use may cause a violent reaction leading to fire and explosion. Moisture, organic matter or other chemicals may start a chemical reaction leading to the generation of heat, hazardous gases and possible fire and explosion. Do not reseal container. If possible, flood with large amount of water. If necessary, flood with large amount of water.

BEST AVAILABLE COPY

ACCEPTED
with COMMENTS
in EPA Letter Dated
5/11/93

MAY 11 1993

The Great Lakes Chemical Corporation
P.O. Box 2200
West Lafayette, Indiana 47906
is registered for the production
of this product under EPA Reg. No.
5785-65

5785-65

DIRECTIONS FOR USE

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

STORAGE HANDLING AND DISPOSAL (Brominator)

STORAGE: Keep product dry in tightly closed 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 center 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 DISPOSAL (Granules pails/drums/bags)

STORAGE. Keep product dry in tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat, open flames, sunlight and other chemicals. 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 BromiCide® Granules to the system inlet water or before any other contaminated area in the system.

DOSAGE RATES

INITIAL DOSE: When system is noticeably fouled, add 0.2 to 0.6 lbs/1000 gallons (0.24 to 0.72 kg/10,000 L) 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/10000 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.

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.

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