LONZA INC.
ALLENDALE, NEW JERSEY 07401 USA
EMERGENCY TEL NO. 309-697-7200

Lonza

HEALTH	3
FLAMMABILITY	1
REACTIVITY	1

UN3085
OXIDIZING SOLID, CORROSIVE, N.O.S.
(BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)
MARINE POLLUTANT

OXIDIZER 5.1

CORROSIVE 8

Manufactured by Lonza Inc.

DANTOIN® BCDMH RW TABLETS

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: HARMFUL OR FATAL IF SWALLOWED. HIGHLY CORROSIVE. DO NOT TAKE INTERNALLY. Causes eye and skin damage. Irritating to nose and throat. Avoid breathing dust. Use with adequate ventilation. Do not get in eyes, on skin, or clothing. Wear rubber gloves, chemical goggles and face shield when handling. Wash thoroughly after handling. Immediately remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. 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

CHEMICAL HAZARDS. STRONG OXIDIZING AGENT. Mix only with water. Use clean dry utensils. 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 or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood with large volumes of water, if necessary.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage or disposal. Keep container tightly closed. Store in a dry place. Do not store at elevated temperatures.
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture of rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL:
Nonrefillable container. Do not reuse or refill this container.
Metal Containers: Triple rinse or equivalent, then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
Plastic Containers: Triple rinse or equivalent, then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.
Fiber Drums with Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

DIRECTIONS FOR USE

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

RECIRCULATING COOLING WATER SYSTEMS

Dantoin® BCDMH-RW Tablets aids in the control of bacterial, fungal and algal slimes in commercial and industrial cooling towers; heat exchange water systems; evaporative condensers; influent water systems such as flow-through filters, cooling ponds, canals and lagoons; industrial water scrubbing systems; brewery pasteurizers; sewage systems (septic tanks, leach fields, tank lines, sewers, lagoons and sewage effluent water); photo processing wash water; food and non-food contact paper and paper process water; industrial air washing systems equipped with a mist eliminator; cannery cooling, cannery water, cannery package warmers, cannery pasteurizer water and retort water.
This product may be added to the systems either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon the severity of the problem.
Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA AND FUNGI
INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled add 0.2 to 0.6 pounds to 1000 gallons (0.24 to 0.72 kilograms/10,000liters) of the water in the system. Repeat initial dosage until 1 to 3 ppm bromines residual is established for at least 4 hours.

Active Ingredient	
1-bromo-3-chloro-5,5-dimethylhydantoin . . .	97.70%
Inert Ingredient	2.30%
Total	100.0%

Available bromine . . 64.73%
Available chlorine . . 28.72%

EPA Reg. No. 6836-317 EPA Est. No. 6836-PA-1

SEE LEFT PANEL FOR ADDITIONALPRECAUTIONARY STATEMENTS

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR ON CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 424-9300 for emergency medical treatment information.

Subsequent Dose: When microbial control is evident add 0.1 to 0.3 pounds to 1000 gallons (0.12 to 0.36 kilograms/10,000 liters) of water in the system. Repeat as needed to maintain 1 to 3 ppm bromine residual for at least 4 hours.

AIRWASHERS

When used as directed Dantoin® BCDMH-RW Tablets effectively controls algal, bacterial and fungal slimes in industrial air washing systems equipped with effective mist eliminating components.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, 0.2 to 0.6 pounds/1000 gallons (0.24 to 0.72 kilograms/10,000 liters) of water contained in the system. Repeat initial dosage until 1 to 3 ppm bromine residual is established for at least 4 hours.
Subsequent Dose: When microbial control is evident, add 0.1 to 0.3 pounds/1000 gallons (0.12 to 0.36 kilograms/10,000 liters) of water contained in the system. Repeat as needed to maintain 1 to 3 ppm bromine residual for at least 4 hours.
Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

When used as directed, Dantoin® BCDMH-RW Tablets effectively controls algal, bacterial, fungal slimes and molluscs in open or closed-cycle, fresh or salt water, once-through cooling systems; cooling ponds, canals and lagoons. Treat cooling water with Dantoin® BCDMH-RW Tablets at the system intake or other critical areas, where mixing is uniform.

DOSAGE RATES

INITIAL DOSE: When system is noticeably fouled, add 0.2 to 0.6 pounds per 1000 gallons (0.24 to 0.72 kilograms/10,000 liters) of water contained in the system. Repeat initial dosage until one to three ppm (mg/L) bromine residual is established for at least 4 hours.
SUBSEQUENT DOSE: When microbial control is evident, add 0.1 to 0.3 pounds per 1000 gallons (0.12 to 0.36 kilograms/10,000 liters) of water contained in the system. Repeat as needed to maintain one to three ppm bromine residual for at least 4 hours.

FOR USE IN CANISTERS

TO INSTALL CANISTER: Take feeder cap off. Remove canister cut offs. Hold canister so the open end faces down. Insert into feeder. The end of the canister must align with the L-key located inside the feeder at the bottom. DO NOT FORCE. Replace feeder cap. To achieve the proper halogen residual, turn the control dial to the appropriate setting and add the required product dosage. Refer to use directions for recirculating cooling water systems and sewage systems or airwasher systems, as appropriate.
Check the canister periodically and replace when empty. Do not attempt to open or refill this canister. DO NOT REUSE.
PRECAUTION:
The warranty will be void if this canister is not used with the appropriate feeder. Fire or explosion may result if this canister is used with an incorrect chemical feeder.
NOTE: Some settling may occur during shipment.

PHOTO PROCESSING WASH WATER

The photo processing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of Dantoin® BCDMH-RW Tablets IS NOT intended to remove an existing buildup of biological growth. Dantoin® BCDMH-RW Tablets slowly releases both hypobromous and hypochlorous acid when exposed to a flow of water. To prevent or substantially reduce biological growth, Dantoin® BCDMH-RW Tablets should be introduced into the water supply line after the water mixing valve and before the processor wash tanks. IMPORTANT. DO NOT USE WATER FROM THIS LINE TO MIX CHEMICALS! This may be accomplished by placing 4 - 5 Dantoin® BCDMH-RW Tablets into an empty filter housing or chemical feeder plumbed in at that point. The feeder apparatus should be equipped with a flow regulating valve to control the introduction of bromine and chlorine into the water. Begin by placing Dantoin® BCDMH-RW Tablets with the regulating valve at a low setting. If biological growth is observed, increase the flow in small increments until growth is controlled. It is intended that 1.0 to 3.0 ppm of residual bromine be introduced into the water supply line. Three (3) to 9 grams of tablets will introduce 1.0 to 3.0 ppm residual bromine in 1,000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of bromine/chlorine into the processor wash tanks, a bromine or chlorine test kit should be used to periodically test the water in the wash tanks. If a residual above 3.0 ppm bromine is indicated, the feed rate of tablets should be reduced until the residual drops to 1.0 ppm
NOTE: Seller liability under all warranties, expressed or implied, is limited to replacement of defective product and seller shall have no liability for consequential damages.

PAPER AND PAPERBOARD PROCESS WATER
FOOD AND NON-CONTACT FOOD

When used as directed, Dantoin® BCDMH-RW Tablets 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. Dantoin® BCDMH-RW Tablets is suitable for use as a slimicide for the process water used in the manufacture of paper and paperboard products that no 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
Dantoin® BCDMH-RW Tablets can be used in the manufacture of both food and non-food contact paper and paperboard.

PRODUCT APPLICATION

Dantoin® BCDMH-RW Tablets should be added to process water streams at or immediately prior to a point of sufficient mixing such as the fan pump or wire pit.
Standard dissolution feeders can be used for Dantoin® BCDMH-RW Tablets applications.
Make-up, machine white waters and returning clarified dilution waters are examples of acceptable treatment waters.

INITIAL DOSE: When the system is noticeably fouled apply 0.1 - 1.0 pounds of Dantoin® BCDMH-RW Tablets to 1,000 gallons or 12 to 120 ppm of water in the system. (0.1 to 1.0 pounds of Dantoin® BCDMH-RW Tablets per dry metric ton of paper produced). Repeat treatment until residual of up to 5 ppm bromine is achieved.
SUBSEQUENT DOSE: When microbial control is evident, apply 0.1 to 0.75 pounds of Dantoin® BCDMH-RW Tablets to 1000 gallons or 12 to 90 ppm of water in the system. (0.1 to 0.75 pounds of Dantoin® BCDMH-RW Tablets per dry metric ton of paper produced). Repeat treatment to achieve 0.1-1.0 ppm total available chlorine as measured by suitable test kit. Repeat treatment until residual of up to 1 ppm bromine is achieved.

WATER FEATURES

Dantoin® BCDMH-RW Tablets when used as directed is effective as a water feature sanitizer and disinfectant.
Dosage Rates
Ensure all equipment is working properly. Backwash filter system (if present) following manufacturer's directions. Adjust pH to between 7.2 - 7.6. When using other products as outlined in directions for this product, always follow directions on those products.
A bromine or chlorine residual of 1 - 2 ppm must first be established in the water. If the residual is established with this product in a feeder, use the feeder at the highest feed rate following manufacturer's recommendations. When the bromine residual reaches 1 - 2 ppm adjust the feeder accordingly. To maintain bromine residual, adjust the feeder feed rate to assure a constant treatment level of 1 - 3 ppm. Regular use of a test kit is necessary to maintain a bromine residual in the water.

COMMERCIAL AIR CONDITIONER AND DEHUMIDIFIER BASINS OR DRIP PANS

When used as directed, Dantoin® BCDMH-RW Tablets effectively controls microbial slimes in areas where water collects.
Dosage Rates
Place this product in the basin or drip pan close to the outlet drain in an appropriate dispenser. Use one or more ounces as necessary to maintain the cleanliness of the system. The amount of product needed will vary with temperature, humidity, and condensate volume.

PROD. NO. (P) 190291

LOT NO. (S)

WEIGHT. (Q) 50 lb. 22.68 kg.

8627dmhd 20101105

DANTOIN® BCDMH RW TABLETS

WEIGHT. (Q) 50 lb. 22.68 kg.

PROD. NO. (P) 190291

LOT NO. (S)

8627dmhd 9/20/97N

FOR HELP IN A CHEMICAL EMERGENCY CALL CHEMTREC 800-424-9300. BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET

STATE OF HAWAII
Department of Agriculture
ACCEPTED
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