# DANTOIN® BCDMH RW

## 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 equipment, and containers 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 incineration if allowed by State and local authorities. If drum is contaminant 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.

### RECYCLING 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; canny cooling; canny water, canny package warmers, canny pasteurizer water and retort water. This product may be added to the systems either continuously or intermittently 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/10,000 liters) of water in the system. Repeat initial dosage until up to 1 to 3 ppm bromine residual is established for at least 4 hours.

### AIRWASHERS

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

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**Initial Dose:** When the system is noticeably fouled, add 0.2 to 0.6 pounds to 1000 gallons (0.24 to 0.72 kilograms/10,000 liters) of water in the system. Repeat initial dosage until up to 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 to 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.

### ONCE-THROUGH INDUSTRIAL COOLING

**WATER SYSTEMS**

When used as directed, Dantoin® BCDMH-RW Tablets effectively controls algae, bacterial, fungal slimes and mollusks in open or closed-cycle, fresh or salt water, once-through cooling systems.

### 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.

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### 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 provide 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. You may also contact 1 (800) 424-9300 for emergency medical treatment information.

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### See left panel for additional precautionary statements.
TABLETS

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 REFILL. 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® BCDMHW Tablets is NOT intended to remove an existing buildup of biological growth. Dantoin® BCDMHW Tablets slowly release both hypobromous and hypochlorous acid when exposed to a flow of water. To prevent or substantially reduce biological growth, Dantoin® BCDMHW 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 a 5 - 5 Dantoin® BCDMHW 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® BCDMHW 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/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® BCDMHW Tablets effectively controls algae, bacterial and fungal slime in pulp and 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® BCDMHW Tablets is suitable for use as a slimecide 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.

Dantoin® BCDMHW Tablets can be used in the manufacture of both food and non-food contact paper and paperboard.

PRODUCT APPLICATION

Dantoin® BCDMHW 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® BCDMHW 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® BCDMHW Tablets to 1,000 gallons or 12 to 120 ppm of water in the system. (0.1 to 1.0 pounds of Dantoin® BCDMHW 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® BCDMHW Tablets to 1000 gallons or 12 to 90 ppm of water in the system. (0.1 to 0.75 pounds of Dantoin® BCDMHW 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.

\L SAFETY DATA SHEET