

**MB-1000 Microbiocide**

Microbiocide for control of bacteria, fungi, and algae in recirculating cooling water systems and airwashers

**COMMERCIAL**

READ THE LABEL BEFORE USING

Contents: BRIQUETTES

**GUARANTEE:**

Available Bromine present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins..... 39.2%

Available Chlorine present as 1-bromo-3-chloro-5,5-dimethylhydantoin, 1,3-dichloro-5,5-dimethylhydantoin, 1,3-dichloro-5-ethyl-5-methylhydantoin and related hydantoins..... 44.4%

**REGISTRATION NO. 27022 PEST CONTROL PRODUCTS ACT**

**DANGER – POISON – CORROSIVE TO EYES AND SKIN**



**POTENTIAL SKIN SENSITIZER**

*Avoid contamination of food during use and in storage. (See side panel for precautions.)*

**NET CONTENTS:** \_\_\_\_\_ **Kg**

**CHECK-MARK®**

Div. of/de NCH Canada Inc.  
247 Orenda Road  
Brampton, Ontario L6T 1E6

**Not intended for household use or resale. Read the entire label before using this product.**

**DIRECTIONS FOR USE:**

**DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**DO NOT** discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

**DO NOT** use this product in the production of paper or paperboard that will come in contact with food.

**RECIRCULATING COOLING WATER SYSTEMS:** MB-1000 Microbiocide aids in the control of bacterial, fungal, and algal slimes in evaporative condensers, heat exchange water towers, influent systems such as flow-through filters, lagoons, etc... industrial water scrubbing systems and brewery pasteurizers. 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 60 to 600 gms to 5,000 litres or 12 to 120 ppm of water in the system. Repeat until control is achieved. *Subsequent dose:* When microbial control is evident, add 60 to 450 gms to 5,000 litres or 12 to 90 ppm of water in the system every 3 days or as needed to maintain control.

**CONTINUOUS FEED METHOD:** *Initial dose:* When the system is noticeably fouled, add 60 to 600 gms to 5,000 litres or 12 to 120 ppm of water in the system. Repeat until control is achieved. *Subsequent dose:* Continuously feed to maintain a dosage of 60 to 450 gms to 5,000 litres or 12 to 90 ppm of water in the system.

**For control of algae:**

**INTERMITTENT OR SLUG METHOD:** *Initial dose:* When the system is noticeably fouled, add 60 to 600 gms to 5,000 litres or 12 to 120 ppm of water in the system. Repeat until control is achieved. *Subsequent dose:* When algae control is evident, add 60 to 450 gms to 5,000 litres daily or 12 to 90 ppm daily or as needed to maintain control.

**CONTINUOUS FEED METHOD:** *Initial dose:* When the system is noticeably fouled, add 60 to 600 gms to 5,000 litres or 12 to 120 ppm of water in the system. Repeat until control is achieved. *Subsequent dose:* Continuously feed to maintain a dosage of 60 to 450 gms to 5,000 litres of water in the system.

**AIRWASHERS:** For use only in industrial airwasher systems that maintain effective mist eliminating components. MB-1000 Microbiocide controls slime forming bacteria, fungi, and algae in industrial airwasher systems. Add MB-1000 Microbiocide at the rate of 60 to 600 gms (12 to 120 ppm) per 5,000 litres of water in the system, depending upon the severity of the contamination. Control the application by measuring the free chlorine residual in the treated water. There is no need to exceed 1.0 ppm as free chlorine. Badly fouled systems must be cleaned before treatment is begun.

**INTERMITTENT OR SLUG METHOD:** *Initial dose:* When the system is noticeably fouled, add to airwasher sump or chill water sump to ensure uniform mixing. Add 60 to 600 gms to 5,000 litres or 12 to 120 parts per million of water. *Subsequent dose:* When microbial control is evident, add 60 to 360 gms to 5,000 litres or 12 to 72 parts per million of water.

**CONTINUOUS FEED METHOD:** *Initial dose:* When the system is noticeably fouled, add the air washer sump or chill water to ensure uniform mixing. Add 60 to 600 gms to 5,000 litres or 12 to 120 parts per million of water. *Subsequent dose:* When microbial control is evident add 60 to 360 gms to 5,000 litres or 12 to 72 parts per million.

**PAPER AND PAPERBOARD PROCESS WATER:** This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products. Use 0.02 kg to 1.8 kg per 4,540 litres of process water or 5 ppm to 50 ppm of water. Repeat as needed to maintain one to three ppm bromine residual for at least 4 hours.

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. HIGHLY CORROSIVE. DO NOT TAKE INTERNALLY.** Causes eye and skin damage. Irritating to the nose and throat. Avoid breathing dust. Use with adequate ventilation. Do not get into eyes, on skin, or clothing. Potential skin sensitizer. Wear long pants, a long-sleeved shirt, chemical-resistant gloves and goggles or a face shield while cleaning equipment or handling product. For pulp and paper uses, wear coveralls in addition to all other required personal protective equipment while placing the product. Wash thoroughly after handling. Immediately remove contaminated clothing and wash before reuse.

**FIRST AID:**

***If on skin or clothing:*** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

***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 centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

***If Ingested:*** Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

**Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.**

**TOXICOLOGICAL INFORMATION:** This product is corrosive to skin and eyes and may produce a sensitization response or allergic reaction in some individuals. Probable mucosal damage may contraindicate the use of gastric lavage.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters.

**PHYSICAL AND 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 the fire and explosion. In case of contamination or decomposition, do not reseal the container. If possible, isolate the container in open air or well-ventilated area, if necessary flood with large volumes of water.

**DISPOSAL:**

1. Triple or pressure-rinse the emptied container thoroughly. Add the rinsings to the treatment site.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**For medical or environmental emergencies, call CHEMTREC® at 1-800-424-9300.**

To reorder, call TOLL FREE: 1-800-387-1784

