BromMax® 7.1

BromMax 7.1 is an effective agent for controlling algae, bacteria and slime in condensing and cooling equipment in which recirculating water is used as the cooling medium and in lined reservoirs or ponds which serve as the source of feedwater or cooling water. BromMax 7.1 can also be used to control bacterial slime and slime in papermaking systems, papermill influent water systems, and oilfield water recovery systems.

**Active Ingredients:**
- Sodium hypochlorite: 7.45%
- Sodium bromide: 10.28%

**Inert Ingredients:**
- Sodium bromide: 82.27%

Total Available bromine: approximately 16%
Total Available chlorine: approximately 7%

**DIRECTIONS FOR USE**

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

**BASIC GUIDELINES:**
As a general rule, the total bromine level should be checked with a chlorine or bromine test kit at the bleed-off point from the point of injection. This product is UV light sensitive, and may be applied at nighttime in most cases. Overexposure may be a limiting factor. Do not store product in clear or transparent containers.

**Initial dose:** When the system is noticeably fouled, a precleaning may be necessary. Then apply sufficient BromMax 7.1 to achieve 2.4-15 ppm total bromine (1-6.6 ppm as chlorine) or as needed to maintain microbial or algic control.

**Subsequent doses:** This product may be used adding continuous or intermittent dosing methods to provide adequate control. Continuous addition methods may maintain adequate control at lower total bromine levels than suggested above. Always adjust levels of total bromine accordingly to maintain desired visual or measured microbiological control.

**INDUSTRIAL & COMMERCIAL RECIRCULATING COOLING WATER, HEAT TRANSFER SYSTEMS and PASTEURIZERS:** (Sulfuric Acid Condensers, Hydrotreater Stoppers and Retorts, Dairy Sweetwater Systems, Food and Beverage Pasteurizers and Once-Through Cooling Water Systems): BromMax 7.1 should be applied directly to the cooling water at any section of the system where suppression of bacterial life is desired. The solution should be applied to the cooling water to provide a total bromine level of 1.0-15 ppm. BromMax 7.1 added at a rate of two fluid ounces per 1000 gallons of water gives a dosage of approximately 3.4 ppm of total bromine, but higher dosages may occasionally be required to provide the desired bromine level throughout the system. When the total bromine level should be checked with a test kit and additional product applied until a reading of 1.0-15 ppm is obtained at the bleed-off point. Some systems may be maintained in satisfactory biological condition by applying this dosage once per day while others will respond better to dosages less than once per day. Some systems may be maintained in satisfactory biological condition by applying this dosage intermittently while others may require a continuous application.

**AIRWASHERS:**
- This product may be used at the lined reservoir, pond, or fountain inlet or a location that permits complete diffusion into the water at maximum retention time before reaching the outlet. Sufficient BromMax 7.1 should be fed to maintain a total bromine level of 1-15 ppm in all parts of the reservoir or pond (two fluid ounces per 1000 gallons of water yields 3.4 ppm total bromine). Some systems may be maintained in satisfactory biological condition by applying this dosage once per day while others will respond better to dosages less than once per day.

**HEAT TRANSFER SYSTEMS and PASTEURIZERS:** (not for use in California): For control of bacteria and associated slime in shell egg pasteurizer water systems add 2.6 ounces of this product per 1000 gallons of system water to achieve control. Maintain control add a sufficient amount to maintain 1.0-9 ppm total bromine throughout the system. (Two fluid ounces per 1000 gallons of water yields 3.4 ppm total bromine).

**AERIATORS:**
(Not for use in California) For control of microorganisms in industrial air water systems add this product to the air washer sump or chill water to provide a total bromine level of 1-15 ppm. Badly fouled systems must be cleaned before treatment is begun. BromMax 7.1 at a dosage of two fluid ounces per 1000 gallons of water gives a dosage of approximately 3.4 ppm of total bromine, but higher dosages may occasionally be required to provide the desired bromine level throughout the system. The total bromine level should be checked with a test kit and additional product applied until a reading of 1-15 ppm is obtained before reaching the outlet. Some systems may be maintained in satisfactory biological condition by applying this dosage once per day while others will respond better to dosages less than once per day.

**FOR PULP & PAPER MILL INFLUENT WATER SYSTEMS:** (not for use in California) For pulp and paper influent water systems where the microorganism content is heavy, and where stripping of available chlorine is not a problem, BromMax 7.1 may be applied intermittently with a dosage of approximately 3.4 ppm of total bromine, but higher dosages may occasionally be required to provide the desired bromine level throughout the system. Some systems may be maintained in satisfactory biological condition by applying this dosage intermittently while others may require a continuous application. This product may be used in pulp and paper influent water systems where the manufacturer paper or paperboard may be used for food contact purposes.

**OIL AND SECONDARY OIL RECOVERY SYSTEMS, DRILLING MUDS AND PACKER FLUIDS:** (not for use in California). This product may be used to treat water used in primary or secondary oil or gas recovery systems to control the growth of anaerobic sulfide-forming bacteria and aerobic slime-forming bacteria. BromMax 7.1 may be used in seawater or fresh water, recycled or disposal/recovery systems, muds or fluids. BromMax 7.1 controls biological and slime deposits on pipes, pipework, heat exchangers, and filters associated with oilfield and gasfield treatment systems. It also controls slime deposits in formation. An insufficient amount of BromMax 7.1 to achieve satisfactory biological control. Initial recommended dosing levels of 2.2 to 50 ps at pm as total Bromine are suggested. A dosage of two fluid ounces per 1000 gallons of water yields approximately 3.4 ppm of total bromine.

**NOTE:** Halogen dosages listed in the various applications are expressed as bromine.

Since most field test kits for oxidizing halogens give values in terms of chlorine, simply multiply the reading from the test kit (as chlorine) by 2.25 in order to obtain the equivalent bromine dosage.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER. CORROSIVE.** Causes irreversible eye damage. Causes skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear such as face shield or safety glasses and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, smoking, or using tobacco. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into any water body (including spills, flood areas with large quantities of water). Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse empty container but place in trash collection. Do not contaminuate water, food, or feed by storage, disposal or cleaning of equipment.

**PESTICIDE DISPOSAL:** Pesticide disposal wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinse 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:** PLASTIC CONTAINERS: Nonrefillable container. Do not reuse container or board may be tested for food contact purposes. After emptying and cleaning, it may be allowable to temporarily hold rinsate in a closed tank. Fill the container 1/4 full with water. Replace and tighten closures. Do not recontaminate other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Clean container promptly after each use. Exportation of the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**STORAGE AND DISPOSAL:** Store this product in a cool dry area, away from direct sunlight. Store in airtight container and heat- and airtight container. Store in a safe place out of reach of children. Do not store in direct sunlight. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse empty container but place in trash collection. Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

**SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**24 hr Emergency ChemTrec Number:**

5/18/16

**DOT:** UN1760, Corrosive Liquid, n.o.s. (bromide salts). 8 PG III

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