**PRODUCT INFORMATION**

**LiquiBrom 4000**


**ACTIVE INGREDIENT:**

- Sodium Bromide 40.0%
- Other Ingredients 60.0%
- Total 100.0%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID:**

- **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Wash skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

- **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. If irritation persists, seek medical attention. Call a poison control center or doctor.

- **IF SWALLOWED:** Do not induce vomiting unless told to do so by the poison control center or doctor.

**WARNING:** Contains sodium bromide. Use only as directed. Harmful if inhaled, swallowed, or otherwise entered into the body. Avoid contact with skin, eyes, and clothing.

**DIRECTIONS FOR USE CONTINUED:**

When microbial control is evident, add 0.0003 to 0.049 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.006 to 0.06 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume), or sodium hypochlorite solution (0.02 to 0.06 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume). When microbial control is evident, add 0.0008 to 0.049 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.003 to 0.032 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

**PHYSICAL AND CHEMICAL HAZARDS:**

- Sodium bromide is not flammable. However, in fires fueled by other materials, concentrated bromine or bromine may be released. In case of fire, wear self-contained breathing apparatus.

**ENVIRONMENTAL HAZARDS:**

This product is toxic to fish and aquatic organisms. 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.

**STORAGE AND DISPOSAL:**

Storage: Keep product dry in tightly closed original container when not in use. Store in a cool, dry, well ventilated area. Product should be stored at 0 degrees F or above.

Container Disposal: Refillable container. Refill this container with sodium bromide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinse collection system. Repeat this rinsing procedure two more times.

**PRECAUTIONARY STATEMENTS:**

- **HAZARDS TO HUMANS AND DOMESTIC ANIMALS. CAUTION.** Causes moderate eye irritation. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

- **HAZARDS TO DOMESTIC ANIMALS.** Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

- **HAZARDS TO INFLUENZAS:** This product is toxic to aquatic organisms. 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.

**DIRECTIONS FOR USE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

**RECCIRCULATING COOLING WATER SYSTEMS, INCLUDING AIR WASHERS AND BREWERY PASTEURIZERS:**

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime and controls the settlement and growth of mussels such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in commercial and industrial cooling towers, influent water systems such as flow through filters, cooling ponds, canals, and lagoons; heat exchange water systems; air washers; pasteurizers; rector systems; and industrial water scrubbing systems.

**DOSAGE RATES.**

Add this product to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

1. 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution; or
2. 1.3 to 21.2 gallons sodium hydrochloride (12.5% available chlorine) solution per gallon of sodium bromide solution.

**INITIAL DOSE:**

When the system is noticeably fouled, add 0.0003 to 0.049 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.007 to 0.032 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

**SUBSEQUENT DOSE:**

When microbial control is evident, add 0.0008 to 0.049 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.003 to 0.032 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

**DOSAGE RATES.**

Add this product to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

1. 1.6 to 26.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution; or
2. 1.3 to 21.2 gallons sodium hydrochloride (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient amount of mixed product/oxidant solution to achieve a residual bromine level of 0.5 to 2.0 parts per million. For 0.5 parts per million add 0.00057 gallons of product and 0.0018 gallons of (12.5% bleach or 0.0019 pounds gas chlorine per 1000 gallons of water treated.

Treatment levels of this product and oxidant can best be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water sample and any test kits for the following:

1. When a bromine test kit is used, results can be read directly as parts per million.
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.

This product weighs 11.9 pounds/gallon at 70°F. NOTE: Buyer assumes all responsibility for safety and use in accordance with directions.