

ASHLAND DREWBROM® PRECURSOR

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Avoid contact with skin and clothing. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not get into eyes.

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 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

DREWBROM PRECURSOR is not flammable. Avoid contact with strong oxidizers (other than sodium hypochlorite and chlorine), acids, alkaloidal and heavy metal salts.

STORAGE AND DISPOSAL

Do not contaminate water, food and feed by storage or disposal.
STORAGE: Store in a well ventilated, dry area. Product should be stored at 50°F or above.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER HANDLING:
Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Offer for reconditioning, if appropriate. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

FOR INDUSTRIAL USE ONLY
NET CONTENTS MARKED ON DRUM

IMPORTANT NOTICE: Seller warrants that the product conforms to its chemical description and is reasonable fit for the purposes stated on the label under normal conditions of use. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN OTHER RESPECTS THAN AS EXPRESSLY SET FORTH HEREIN, ARE EXPRESSLY EXCLUDED AND DISCLAIMED.
NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.

ACTIVE INGREDIENT:
Sodium Bromide.....40.0%
INERT INGREDIENTS:.....60.0%
TOTAL.....100.0%

EPA Reg. No. 74655-29

EPA Est. No. 74655-TX-1 74655-GA-001

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

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 further 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 ON SKIN OR CLOTHING:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED:

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. Call a poison control center or doctor immediately for further treatment.

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) 873-1138 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probably mucosal damage may contraindicate the use of gastric lavage.

Sold by:

Hercules Incorporated
A wholly owned subsidiary of Ashland Inc.

ASHLAND®

1313 North Market St., Wilmington, DE 19894
Phone (302) 594-5000

24 hour emergency telephone number 1-800-274-5263 or 1-800-ASHLAND
®Registered trademark, Ashland

FOR USE AS A DISINFECTANT, BACTERICIDE, FUNGICIDE, ALGICIDE, SLIMICIDE AND MOLLUSCIDICIDE IN WATER TREATMENT

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons.

DREWBROM® PRECURSOR is used as a disinfectant, bactericide, fungicide, algicide, slimicide, and molluscicide in recirculating and once-through cooling water systems, brewery pasteurizing systems, waste water systems, and pulp and paper mills. It is to be used in conjunction with an oxidant such as sodium hypochlorite (12.5%) or chlorine gas (99.9%) to produce the hypobromous acid. DREWBROM® PRECURSOR may be added at system inlet water or metered into the existing NaOCl piping to form a solution of sodium hypobromite. Consult your feeder manufacturer for correct procedure and proper use of the feeder equipment.

WASTEWATER

When used as directed, DREWBROM® PRECURSOR effectively disinfects wastewater effluent. The quantity of DREWBROM® PRECURSOR required varies with the degree of fouling. Add sufficient DREWBROM® PRECURSOR and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.3ppm to 1ppm when measured approximately 5 minutes after treatment.

Depending on the construction of the wastewater system, DREWBROM® PRECURSOR can be effectively added to one or more different locations in the system. Frequently, the compound is added to wastewater receiving secondary treatment at a contact tank preceding the effluent discharge or at the influent of the final clarifier.

The disinfection of sewage effluent must be evaluated by determining that the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the MPN Procedure, of the disinfected effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

RECIRCULATING COOLING WATER SYSTEMS INCLUDING BREWERY PASTEURIZERS AND AIR WASHERS

When used as directed, DREWBROM® PRECURSOR effectively controls bacteria, fungi, algae, slimes and the growth and settlement of mollusks such as zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in commercial and industrial cooling towers, heat exchange water towers, industrial water scrubbing systems (**not registered in California**) and influent systems such as flow through filters, and lagoons (**not registered in California**), etc.

INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS

When used as directed, DREWBROM® PRECURSOR effectively controls bacteria, fungi, algae, slimes and the growth and settlement of mollusks such as zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in once-through and closed-cycle fresh and sea water cooling systems. Apply DREWBROM® PRECURSOR and chlorine or sodium hypochlorite to the system inlet water or before any other contaminated area in the system.

DOSAGE RATES: Initial Dose: When the system is noticeably fouled, apply sufficient DREWBROM® PRECURSOR and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 -1ppm or as needed to maintain control. A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5-6.0 lbs of chlorine gas (99.9%) or 1.3-5.2 gallons NaOCl (12.5%) for each gallon of DREWBROM® PRECURSOR.

Subsequent Dose: When microbial control is evident, apply sufficient DREWBROM® PRECURSOR and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 -1ppm or as needed to maintain control. A 0.5 to 2.0 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5-6.0 lbs of chlorine gas (99.9%) or 1.3-5.2 gallons NaOCl (12.5%) for each gallon of DREWBROM® PRECURSOR.

The product may be added to the system either continuously or intermittently or as needed to obtain the above residual level. The frequency of feeding and dosage rate will depend on the severity of the problem. It is recommended that the product be used in a manner such that the effluent discharges meet the NPDES guidelines.



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PERIOD 2014-2016 LIC. NO.

PERIOD 2011-2013 LIC. NO.

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