

SODIUM BROMIDE 38

MANUFACTURING-USE PRODUCT FOR FORMULATION/REPACKAGING
OR USE AS A DISINFECTANT, FUNGICIDE, ALGICIDE AND/OR
SLIMIDICIDE IN WATER TREATMENT

ACTIVE INGREDIENT:

Sodium Bromide-----38.0%

INERT INGREDIENT:-----62.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

Prolonged eyes and skin contact may cause severe irritation.

STATEMENT OF PRACTICAL TREATMENT

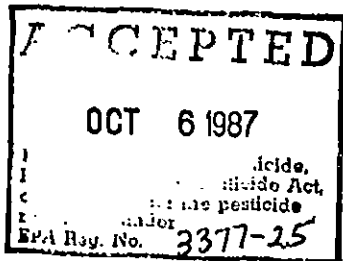
In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

ETHYL CORPORATION
451 Florida Street
Baton Rouge, LA 70801

In case of an emergency endangering life or property involving
this product, call collect (504) 344-7147.

EPA Reg. No. 3377 -
EPA Est. No. 3377-AR-1

Net Contents -----lbs.



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMAN AND DOMESTIC ANIMALS

DANGER

May cause irritation. Prolonged contact may cause skin irritations. Do not get into eyes.

ENVIRONMENTAL HAZARDS

Do not apply directly to lakes, streams or ponds. Do not contaminate water by cleaning of equipment or by disposal of wastes. Do not discharge into lakes, streams, ponds or public water unless in accordance with a NPDES Permit. For guidance, contact your Regional office of EPA. Use this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

Avoid contact with strong oxidizers (other than sodium hypochlorite and chlorine), acids, alkaloidal and heavy metal salts.

STORAGE AND DISPOSAL

STORAGE: Store drums in well ventilated, dry area.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes can not be disposed of by use in accordance to label instructions, contact your regional Office of EPA for guidance.

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning,, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: Triple rinse (or equivalent). The offer for 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.

DIRECTIONS FOR USE:

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

Reformulated or repackaged product must be registered with EPA. The registrant must supply data required for this registration.

SODIUM BROMIDE 38 is for use as a disinfectant, fungicide algicide, and/or slimeicide in recirculating and once-through cooling water systems. 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. SODIUM BROMIDE 38 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.

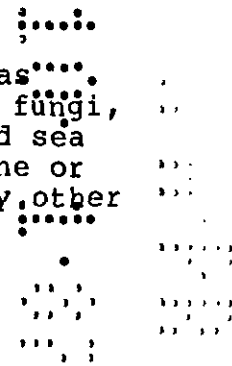
WASTEWATER. When used as directed, SODIUM BROMIDE 38 effectively disinfects wastewater effluent. The quantity of SODIUM BROMIDE 38 required varies with the degree of fouling. Add sufficient SODIUM BROMIDE 38 and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.3 ppm to 1 ppm when measured approximately 5 minutes after treatment.

Depending on the construction of the wastewater system, SODIUM BROMIDE 38 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. When used as directed, SODIUM BROMIDE 38 effectively controls bacteria, fungi, algae and slimes in commercial and industrial cooling towers; heat exchange water towers, industrial water scrubbing systems, and influent systems such as flow through filters, lagoons, etc.

INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS. When used as directed, SODIUM BROMIDE 38 effectively controls bacteria, fungi, algae and slimes in once-through and closed-cycle fresh and sea water cooling systems. Apply SODIUM BROMIDE 38 and chlorine or sodium hypochlorite to the system inlet water or before any other contaminated area in the system.



DOSAGE RATES:

Initial Doses: When the system is noticeably fouled, apply sufficient SODIUM BROMIDE 38 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5-1 ppm 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 SODIUM BROMIDE 38.

Subsequent Dose: When microbial control is evident, apply sufficient SODIUM BROMIDE 38 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5-1 ppm 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 SODIUM BROMIDE 38.

The product may be added to the system either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon 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.

WARRANTY

Seller makes no warranty expressed or implied concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

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