

PM 32

3377-25

7-22-99

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 22 1999

Albemarle Corporation  
451 Florida Street  
Baton Rouge, LA 70801

Attention: John Hebert  
Registration Manager

Subject: Sodium Bromide 40  
EPA Registration Number 3377-25  
Your Amendments Dated June 28, 1999

This is in response to your amendment on the above products to add an additional claim to your label.

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provide that you make the labeling change listed below before you release the product for shipment bearing the amended labeling.

On front panel and last page of label, replace "Cleans Biofilm Deposits" to read: "Controls Biofilm Deposits".

A stamped copy is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment bearing the amended label.

If you have any questions concerning this letter, please contact Delores Williams at (703) 308-6372.

Sincerely,

*RS*

Robert S. Brennis  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510C)

CONCURRENCES

SYMBOL	7510c						
SURNAME	<i>del</i>						
DATE	7/22/99						

2075

# SODIUM BROMIDE 40

FOR USE AS A DISINFECTANT, BACTERICIDE, FUNGICIDE, ALGICIDE, SLIMICIDE AND MOLLUSCICIDE IN WATER TREATMENT. CLEANS BIOFILM DEPOSITS FROM PUMPS, PIPEWORK, HEAT EXCHANGERS, AND FILTERS ASSOCIATED WITH INDUSTRIAL WATER TREATMENT SYSTEMS.

**ACTIVE INGREDIENT:**

Sodium Bromide ..... 40.0%  
INERT INGREDIENTS:..... 60.0%

KEEP OUT OF REACH OF CHILDREN

## CAUTION

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. If on skin: Wash with plenty of soap and water. Get medical attention.

ALBEMARLE CORPORATION  
451 FLORIDA STREET  
BATON ROUGE, LA 70801



In case of an emergency endangering life or property involving this product, call collect (225)344-7147.

EPA Reg. No. 3377-25  
EPA Est. No. 3377-AR-1  
EPA Est. No. 42403-TX-1

Net Contents .....lbs.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated.

JUL 22 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA No.

3377-25



**DIRECTIONS FOR USE.**

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

Sodium Bromide 40 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. Sodium Bromide 40 may be added at system inlet water or metered into the existing NaOCl piping to form a solution of sodium hypobromide. Consult your feeder manufacturer for correct procedure and proper use of the feeder equipment.

WASTE WATER. When used as directed, Sodium Bromide 40 effectively disinfects wastewater effluent. The quantity of Sodium Bromide 40 required varies with the degree of fouling. Add sufficient Sodium Bromide 40 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 40 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 SYSTEM INCLUDING BREWERY**

**PASTEURIZERS.** When used as directed, Sodium Bromide 40 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, lagoons, (not registered in California) etc.

**INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS.** When used as directed. Sodium Bromide 40 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 Sodium Bromide 40 and chlorine or sodium hypochlorite to the system inlet water or before any other contaminated area in the system.

DOSAGE RATE:

When the system is noticeably fouled, apply sufficient Sodium Bromide 40 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 20 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 40.

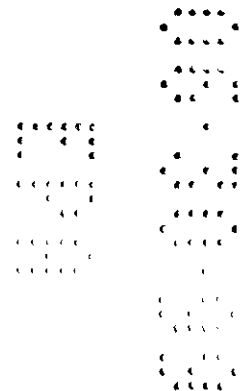
**SUBSEQUENT DOSES:** When microbial control is evident, apply sufficient Sodium Bromide 40 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5-1 ppm or as needed to maintain control. A 0.5 to 20 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended 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 40.

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.

Sodium Bromide 40 can also be used to clean biofilm deposits from pumps, pipework, heat exchangers, and filters associated with industrial water treatment systems.

**DOSAGE RATE:**

When the system is noticeably soiled, apply sufficient Sodium Bromide 40 and chlorine or sodium hypochlorite to achieve a residual bromine level of 1.0-3.0 ppm or as needed to clean biofilm soil. A 0.25 to 1.0 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 40.



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**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**

Sodium Bromide 40 is not flammable. Avoid contact with strong oxidizers (others than sodium hypochlorite and chlorine), acids, alkaloidal and heavy metal salts.

**STORAGE AND DISPOSAL**

**STORAGE:** Store drums in well ventilated, dry area. Product should be stored at 50°F or above.

**DISPOSAL:** Do not contaminate water, food, or feed by storage, or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Triple rinse the container (or equivalent), then offer for recycle, 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.

**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.

