

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

CAUTION:

**HARMFUL IF SWALLOWED. CAUSES
MODERATE EYE IRRITATION.**

Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

REDUCING AGENT Do not allow this product to come in contact with acids or oxidizing agents under conditions other than controlled feed to the system. Use only as directed. Gross mixing of this product with acids or oxidizing agents may cause evolution of hydrogen bromide gas which is poisonous and corrosive.

This product is not flammable. However, in fires fueled by other materials hydrogen bromide or oxime may be released.

STORAGE AND DISPOSAL

STORAGE Store in a cool dry place away from direct sunlight. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

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). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

ACCEPTED

'JUL 23 1991

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 1706-168

NALCO®

ACTI-BROM®

1338

CHLORINE ENHANCER & BIODISPERSANT

Hypobromous Acid Generating Source For Use in Utility and Industrial once Through and Recirculating Cooling Water Systems Utilizing Chlorination

ACTIVE INGREDIENT:

Sodium Bromide	92.8%
INERT INGREDIENTS	57.2%
Total	100.0%

EPA Reg. No. 1706-168

EPA Est. No. 1706-IL-1

KEEP OUT OF REACH OF CHILDREN

CAUTION:

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

IF IN EYES Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

IF ON SKIN Flush skin with water. Remove and wash contaminated clothing before reuse.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NALCO CHEMICAL COMPANY

6216 WEST 66TH PLACE

CHICAGO, IL 60638

EMERGENCY TELEPHONE NUMBER

(708) 920-1510

BEST AVAILABLE COPY

DIRECTIONS FOR USE:

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

ACTI-BROM 1338 is a source of hypobromous acid when applied to cooling water systems already being treated by chlorination.

RECIRCULATING COOLING WATER SYSTEMS

When used as directed, ACTI-BROM 1338 helps to effectively control algae, bacterial and fungal slime, asiatic clams, barnacles and other molluscs, in commercial and industrial cooling towers; influent water systems such as flow through filters; heat exchange water systems; and industrial water scrubbing systems.

DOSAGE RATES: Add ACTI-BROM 1338 to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

- 1) 1.8 to 29.0 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution.
- 2) 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

INITIAL DOSE: When the system is noticeably fouled, add 0.0003 to 0.022 gallons of ACTI-BROM 1338/1000 gallons of water contained in the system and oxidize with either gas chlorine (0.000 to 0.042 lbs. gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.003 to 0.034 gallons of 12.5% sodium hypochlorite solution per 1000 gals of contained water).

SUBSEQUENT DOSE: When microbial control is evident, add 0.0001 to 0.022 gallons of ACTI-BROM 1338 per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.004 to 0.042 lbs. gas chlorine/1000 gals of contained water), or sodium hypochlorite solution (0.003 to 0.034 gallons of 12.5% sodium hypochlorite solution/1000 gallons of contained water).

**ONCE-THROUGH COOLING WATER
AND WASTEWATER TREATMENT SYSTEMS**

When used as directed, ACTI-BROM 1338 helps to effectively control algae, bacterial and fungal slime, asiatic clams, barnacles and other molluscs in a once-through fresh and sea water cooling systems and helps to disinfect secondary and tertiary wastewater treatment systems currently being chlorinated.

DOSAGE RATES: Add ACTI-BROM 1338 to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

- 1) 1.8 to 29.0 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution.
- 2) 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

INITIAL DOSE: When the system is noticeably fouled, add 0.0007 to 0.044 gallons of ACTI-BROM 1338/1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.02 to 0.00 lbs. gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.02 to 0.07 gallons 12.5% sodium hypochlorite solution/1000 gallons of contained volume).

SUBSEQUENT DOSE: When microbial control is evident, add 0.0003 to 0.044 gallons ACTI-BROM 1338 per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.000 to 0.00 lbs. gas chlorine/1000 gallons contained volume), or sodium hypochlorite solution (0.006 to 0.07 gals 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

Specific dosage of ACTI-BROM 1338 will vary depending upon the operating characteristics of the system, the water chemistry and the severity of contamination. Consult your Nalco Representative for optimum dosage in your system.