

**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 mix this pesticide with  
acids or other oxidizing chemicals. Mixing with  
acids or oxidizing chemicals may cause evolution  
of hydrogen bromide gas which is poisonous and  
corrosive.

**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.

**ACCEPTED**

FEB 12 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.....	42.8%
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 86TH PLACE

CHICAGO, IL 60638

EMERGENCY TELEPHONE NUMBER

(708) 920-1510

**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 ex-  
change water systems; and industrial water scrubbing systems.

**DOSAGE RATES:** Add ACTI-BROM 1338 to the system at a 0.5 to 2.0  
sodium bromide/oxidant mole ratio. For example:

1) 2 to 8 pounds of chlorine gas(99.9%) per gallon of sodium  
bromide solution;

2) 1.6 to 6.5 gallons sodium hypochlorite (12.5% available  
chlorine) solution per gallon of sodium bromide solution.

**INITIAL DOSE:** When the system is noticeably fouled, add 0.001 to  
0.020 gallons of ACTI-BROM 1338 per 1000 gallons of water con-  
tained in the system and oxidize with either gas chlorine (0.008  
to 0.042 lbs. gas chlorine per 1000 gallons of contained water),  
or sodium hypochlorite solution(0.007 to 0.034 gallons of 12.5%  
sodium hypochlorite solution per 1000 gallons of contained water).

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.0005  
to 0.020 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 gallons 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 0.5 to 2.0  
sodium bromide/oxidant mole ratio. For example:

1) 2 to 8 pounds of chlorine gas(99.9%) per gallon of sodium  
bromide solution;

2) 1.6 to 6.5 gallons sodium hypochlorite (12.5% available  
chlorine) solution per gallon of sodium bromide solution.

**INITIAL DOSE:** When the system is noticeably fouled, add 0.003 to  
0.04 gallons of ACTI-BROM 1338/1000 gallons of water contained  
in the system and oxidize with either gas chlorine (0.02 to  
0.08 lbs. gas chlorine per 1000 gallons of contained volume), or  
sodium hypochlorite solution (0.02 to 0.07 gallons 12.5% sodium  
hypochlorite solution per 1000 gallons of contained volume).

**SUBSEQUENT DOSE:** When microbial control is evident, add 0.001 to  
0.04 gallons ACTI-BROM 1338 per 1000 gallons of water contained  
in the system, and oxidize with either gas chlorine (0.008 to  
0.08 lbs. gas chlorine per 1000 gallons contained volume), or  
sodium hypochlorite solution(0.007 to 0.07 gallons 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.