NALCO

ACTI-BROM® 1338

CHLORINE ENHANCER & BIODISPERSANT

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

ACTIVE INGREDIENT: 
Sodium Bromide 47.8%

INERT INGREDIENTS 52.2%

Total 100.0%%

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

If swallowed:
- Call a poison control center or a doctor immediately for treatment advice.
- Do NOT INDUCE VOMITING.
- Do not give anything to drink.

If in eyes:
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- If after at least 15 minutes of rinsing or after it is judged that nearly all of the
  contamination has been removed. Remove contact lenses, if present, after the
  first 5 minutes, then continue rinsing.
- Call a poison control center or a doctor immediately for 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 a doctor for treatment advice.

If inhaled:
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial
  respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or a doctor for further treatment advice.

NOTE TO PHYSICIAN:
Aspiration may cause lung damage. Probable mucosal damage may
contraindicate the use of gastric lavage.
Have the MSDS and, if available, the product container or label with you
when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

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 hydroporphous 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, aspartic clams, barnacles and other mollusks, in
commercial and industrial cooling towers, influent waste streams 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 (99.94%) 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 0.0001 to 0.022
gallons of ACTI-BROM 1338 per 1000 gallons of water contained in the system
and oxidize with either gas chlorine (0.008 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 0.00004 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 gallons
of contained water), or sodium hypochlorite solution (0.003 to 0.034 gallons of 12.5%
sodium hypochlorite solution per 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, aspartic clams, barnacles and other mollusks in a once-
through fresh and sea water cooling systems and helps to dislodge secondary and
tertiary waste-water 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 (99.94%) 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 0.08 lbs. gas chlorine per 1000 gallons
of contained volume), or sodium hypochlorite solution (0.02 to 0.07 gallons
12.5% sodium hypochlorite solution/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 (0.008 to 0.038 lbs. gas chlorine/1000 gallons
of contained volume), or sodium hypochlorite solution (0.006 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 and Product bulletin for feeding and dosage
instructions.

EPA Reg. No. 1706-168
EPA Est. No. 1706-CA-1 (CR)
EPA Est. No. 1706-PA-1 (EL)
EPA Est. No. 1706-CA-1 (WW)
EPA Est. No. 1706-CN-1 (BU)
Letter in () that matches first letter in batch number identifies the
establishment number.

Net contents shown elsewhere on container

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

PRODUCT IS NOTregulated during transportation

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. HARMFUL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. CAUSES MODERATE EYE
IRRITATION. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated
Clothing and wash separately before reuse.

ENVIRONMENTAL HAZARDS
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
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 bromine 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 an approved waste disposal facility.

(Instructions for non-refillable containers 5 gallons or less)

Container Handling: Non-refillable container. Do not reuse or refill
this container. Triple rinse (or equivalent) container promptly after
empting. Triple rinse as follows: Empty remaining contents into
application equipment or a mix tank and drain for 10 seconds after
the flow begins to drip. Fill the container 1/4 full with water and recap.
Shake for 10 seconds. Pour rinse into application equipment or a mix
tank or store rinse for later use or disposal. Drain for 10 seconds after
the flow begins to drip. Repeat this procedure two more times. Then
offer for recycling, if available, or reconditioning, or puncture and
dispose of in a sanitary landfill, or incinerate or burn, if allowed by state
and local authorities. If burned, stay out of smoke.

NR5 Revised: 4/12/2010