



STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO.

9323.87



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

CAUTION. Causes moderate eye irritation. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

Sodium bromide is not flammable. However, in fires fueled by other materials hydrogen bromide or bromine may be released. In case of fire, wear self-contained breathing apparatus.

ENVIRONMENTAL HAZARDS

This product 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PPRODUCT STORAGE: Keep product dry in tightly closed original container when not in use. Store in a cool, dry well ventilated area. Product should be stored at 30° F or above.

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

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse the container (or equivalent), promptly after emptying.

For containers of 5 gallons or less. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions

RECIRCULATING COOLING WATER SYSTEMS INCLUDING INDUSTRIAL PROCESS WATER, AIR WASHERS AND BREWERY PASTEURIZERS

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime, and controls the settlement and growth of mollusks, such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in commercial and industrial cooling towers; influent water systems such as flow through filters, cooling ponds, canals, and lagoons, heat exchange water systems, industrial process water, air washers, pasteurizers, retort systems, and industrial water scrubbing systems.

DOSAGE RATES: Add this product 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; or,
- 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 this product 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 gals of contained water).

SUBSEQUENT DOSE: When microbial control is evident, add 0.00014 to 0.022 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.004 to 0.044 pounds 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 gallons of contained water).

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

ACTI-BROM® 1318

For use as a Sanitizer, Bactericide, Fungicide, Algaecide, and Mollusk Control Agent, and for Control of Microbial Slimes in Recirculating Cooling Water Systems, Industrial Process Water, Once-Through Cooling Water Systems, Wastewater Treatment Systems, Brewery Pasteurizers, Drip Irrigation Systems, and Pulp and Paper Mill Water.

ACTIVE INGREDIENT:

| | |
|------------------------|--------|
| Sodium Bromide..... | 43.0% |
| OTHER INGREDIENTS..... | 57.0% |
| TOTAL..... | 100.0% |

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

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 doctor for treatment advice

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

In case of medical emergency, call 1-800-424-9300.

SEE OTHER PRECAUTIONS ON SIDE PANEL

EPA Reg. No. 5185-467-1706

EPA Establishment numbers may include the following. (Letters in () that match the prefix in batch number identify the establishment number.)

- 1706-CN-1 (BU); 1706-CA-1 (CR);
- 1706-PA-1 (EL); 1706-IL-1 (BP);
- 1706-WA-1 (VW); 68708-OK-1 (TU);
- 1706-LA-1 (GV); 68708-TX-1 (SL);

Sold by:

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY TELEPHONE NO: 800-424-9300

DIRECTIONS FOR USE - CONTINUED

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

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime, and controls the settlement and growth of mollusks, such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in a once-through fresh and sea water cooling systems, cooling ponds, canals and lagoons; and secondary and tertiary wastewater treatment systems.

DOSAGE RATES: Add this product 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; or
- 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 this product per 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 of this product per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.008 to 0.08 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).

DRIP IRRIGATION SYSTEMS

For the control of algal and microbial slimes in drip irrigation distribution lines, preventing plugging and allowing uniform distribution of water.

DOSAGE RATES: Add this product 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; or,
- 2) 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient amount of this product and oxidize with either gas chlorine or sodium hypochlorite solution to achieve a residual bromine level of 0.2 to 5 ppm as needed to maintain control of the system. For 0.2 ppm bromine add 0.000464 gallons of this product mixed with 0.0016 gallons 12.5% bleach or 0.00168 lbs. gas chlorine per 1,000 gallons water treated. This product can be added whenever chlorination is applied.

MEASUREMENT OF BROMINE RESIDUALS: Treatment levels of this product can be measured with a test kit. Bromine residuals should be measured in water taken from the treated system while it is running. Tests should be made immediately after drawing water samples at the emitter farthest from the injection pump.

PULP AND PAPER MILLS

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, service water systems, non-potable water systems, and other process water.

DOSAGE RATES: Add this product 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; or,
- 2) 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient amount of mixed product/oxidant solution to achieve a residual bromine level of 0.5 to 5 ppm. For 0.5 ppm add 0.00051 gallons of product and 0.0018 gallons of (12.5%) bleach or 0.0019 lbs. gas chlorine per 1,000 gallons of water treated.

Treatment levels of this product and oxidant can best be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions.

When bromine test kit is used, results can be read directly as parts per million bromine

- 1) When bromine test kit is used, results can be read directly as parts per million bromine
- 2) When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.

This product weighs 12.2 pounds/gallon at 70° F.

NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.



Revised: 03-18-2010

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

**PRECAUTIONARY STATEMENTS
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PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse the container (or equivalent), promptly after emptying.

For containers with capacities greater than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment of a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

DIRECTIONS FOR USE

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RECIRCULATING COOLING WATER SYSTEMS INCLUDING INDUSTRIAL PROCESS WATER, AIR WASHERS AND BREWERY PASTEURIZERS

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime, and controls the settlement and growth of mollusks, such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in commercial and industrial cooling towers; influent water systems such as flow through filters, cooling ponds, canals, and lagoons, heat exchange water systems, industrial process water, air washers, pasteurizers, retort systems, and industrial water scrubbing systems.

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NET CONTENTS SHOWN ELSEWHERE ON CONTAINER



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ACTIVE INGREDIENT:
Sodium Bromide.....43.0%
OTHER INGREDIENTS:.....57.0%
TOTAL:.....100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 doctor for treatment advice

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

In case of medical emergency, call 1-800-424-9300.

SEE OTHER PRECAUTIONS ON SIDE PANEL

EPA Reg. No. 5185-467-1706

EPA Establishment numbers may include the following. (Letters in () that match the prefix in batch number identify the establishment number.)

1706-CN-1 (BU); 1706-CA-1 (CR);
1706-PA-1 (EL); 1706-IL-1 (BP);
1706-WA-1 (VW); 68708-OK-1 (TU);
1706-LA-1 (GV); 68708-TX-1 (SL);

Sold by:

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY TELEPHONE NO: 800-424-9300

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

DIRECTIONS FOR USE - CONTINUED

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

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime, and controls the settlement and growth of mollusks, such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in a once-through fresh and sea water cooling systems, cooling ponds, canals and lagoons; and secondary and tertiary wastewater treatment systems.

DOSAGE RATES: Add this product 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; or
- 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 this product per 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 of this product per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.008 to 0.08 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).

DRIP IRRIGATION SYSTEMS

For the control of algal and microbial slimes in drip irrigation distribution lines, preventing plugging and allowing uniform distribution of water.

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- 2) 1.4 to 23.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient amount of this product and oxidize with either gas chlorine or sodium hypochlorite solution to achieve a residual bromine level of 0.2 to 5 ppm as needed to maintain control of the system. For 0.2 ppm bromine add 0.000464 gallons of this product mixed with 0.0016 gallons 12.5% bleach or 0.00168 lbs. gas chlorine per 1,000 gallons water treated. This product can be added whenever chlorination is applied.

MEASUREMENT OF BROMINE RESIDUALS: Treatment levels of this product can be measured with a test kit. Bromine residuals should be measured in water taken from the treated system while it is running. Tests should be made immediately after drawing water samples at the emitter farthest from the injection pump.

PULP AND PAPER MILLS

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, service water systems, non-potable water systems, and other process water.

DOSAGE RATES: Add this product to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:

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Add sufficient amount of mixed product/oxidant solution to achieve a residual bromine level of 0.5 to 5 ppm. For 0.5 ppm add 0.00051 gallons of product and 0.0018 gallons of (12.5%) bleach or 0.0019 lbs. gas chlorine per 1,000 gallons of water treated.

Treatment levels of this product and oxidant can best be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions.

When bromine test kit is used, results can be read directly as parts per million bromine

- 1) When bromine test kit is used, results can be read directly as parts per million bromine
- 2) When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.

This product weighs 12.2 pounds/gallon at 70° F.

NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.



Revised: 03-18-2010



9323.87



ACTI-BROM® 1318

For use as a Sanitizer, Bactericide, Fungicide, Algaecide, and Mollusk Control Agent, and for Control of Microbial Slimes in Recirculating Cooling Water Systems, Industrial Process Water, Once-Through Cooling Water Systems, Wastewater Treatment Systems, Brewery Pasteurizers, Drip Irrigation Systems, and Pulp and Paper Mill Water.

| | |
|------------------------|--------|
| ACTIVE INGREDIENT: | |
| Sodium Bromide..... | 43.0% |
| OTHER INGREDIENTS..... | 57.0% |
| TOTAL..... | 100.0% |

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

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 doctor for treatment advice

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
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IF SWALLOWED:

- Call poison control center or doctor immediately for treatment advice.
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- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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SEE OTHER PRECAUTIONS ON SIDE PANEL

EPA Reg. No. 5185-467-1706

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- | | |
|-----------------|------------------|
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Sold by:

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DIRECTIONS FOR USE - CONTINUED

ONCE-THROUGH COOLING WATER AND WASTEWATER TREATMENT SYSTEMS

When used in conjunction with an oxidant, this product effectively controls algal, bacterial and fungal slime, and controls the settlement and growth of mollusks, such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in a once-through fresh and sea water cooling systems, cooling ponds, canals and lagoons; and secondary and tertiary wastewater treatment systems.

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- 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 this product per 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 of this product per 1000 gallons of water contained in the system, and oxidize with either gas chlorine (0.008 to 0.08 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).

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Add sufficient amount of this product and oxidize with either gas chlorine or sodium hypochlorite solution to achieve a residual bromine level of 0.2 to 5 ppm as needed to maintain control of the system. For 0.2 ppm bromine add 0.000464 gallons of this product mixed with 0.0016 gallons 12.5% bleach or 0.00168 lbs. gas chlorine per 1,000 gallons water treated. This product can be added whenever chlorination is applied.

MEASUREMENT OF BROMINE RESIDUALS: Treatment levels of this product can be measured with a test kit. Bromine residuals should be measured in water taken from the treated system while it is running. Tests should be made immediately after drawing water samples at the emitter farthest from the injection pump.

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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PPRODUCT STORAGE: Keep product dry in tightly closed original container when not in use. Store in a cool, dry well ventilated area. Product should be stored at 30° F or above.

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

CONTAINER DISPOSAL: Refillable container. Refill this container with sodium bromide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

DIRECTIONS FOR USE

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- 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 this product 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 gals of contained water).

SUBSEQUENT DOSE: When microbial control is evident, add 0.00014 to 0.022 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.004 to 0.044 pounds 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 gallons of contained water).

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER



Revised: 3-18-2010

PRODUCT IS NOT REGULATED DURING TRANSPORTATION