

PM32

5185-450

11/10/99

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

NOV 10 1999

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mark Jernigan  
Bio-Lab Inc.  
P.O. Box 1489  
Decatur, GA. 30031-1489

SUBJECT: August 16, 1999  
NABR46-E  
EPA Registration 5185-450

Dear Mr. Jernigan:

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you delete the Fruit and Vegetable Wash Water use. The Agency has reviewed the June 26, 1992 opinion letter from the Food and Drug Administration and does not agree that potassium bromide is chemically equivalent to sodium bromide. The Agency requires a tolerance or exemption from a tolerance for any food contact use.

Two copies of the finished labeling must be submitted prior to releasing the product for shipment. If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Tom Luminello for".

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

Attachment

{All text in brackets [xxx] is optional and may or may not be included on a final label.}  
{All text in braces {xxx} is administrative and will not appear on a final label.}

### NABR46-E

[For use as a Disinfectant, Sanitizer, Bactericide, Fungicide, Algicide, and Mollusk Control Agent, and for Control of Microbial Slimes in: Recirculating Cooling Water Systems, Once-Through Cooling Water Systems, Wastewater Treatment Systems, Brewery Pasteurizers, Pulp and Paper Mill Water ~~Systems, and Wash~~  
~~Water~~

ACTIVE INGREDIENT:		
	Sodium bromide	46.0%
OTHER INGREDIENTS:		54.0%
	Total	100.0%

KEEP OUT OF REACH OF CHILDREN  
CAUTION

MUST  
INCREASE  
type size

#### FIRST AID:

- IF IN EYES: Flush eyes with cold water for at least 15 minutes. If irritation persists, seek medical attention immediately.
- IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
- IF SWALLOWED: Call physician or Poison Control Center. Do not induce vomiting. Do not drink alcohol. Drink at least 8 ounces of water. Do not give anything by mouth to an unconscious person.

[IN CASE OF MEDICAL EMERGENCY, CALL [1-303-623-5716] [telephone number supplied by supplemental registrant].]

SEE OTHER PRECAUTIONS ON SIDE PANEL

Net Weight \_\_\_\_\_  
Lot No. \_\_\_\_\_

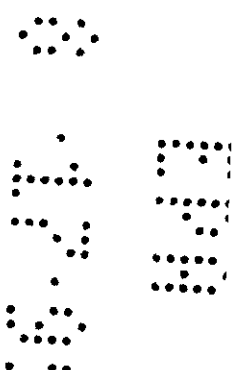
EPA Reg. No. 5185-450  
EPA Est. No. 5785-AR-2

BIO-LAB, INC.  
P.O. Box 1489  
Decatur, GA 30031

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
NOV 10 1999

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

5185-450



**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 AIR WASHERS AND BREWERY PASTEURIZERS:**

When used as directed, 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, 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) 2 to 32 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
- 2) 1.6 to 26 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

**Initial Dose:** When the system is noticeably fouled, add 0.0002 to 0.020 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.042 pounds 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 0.0001 to 0.020 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.004 to 0.042 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).

**APPLICATION OF FRUIT AND VEGETABLE WASH WATER:**

When used as directed, this product effectively controls algal, bacterial, and fungal slime in water used to wash and transport fruits and vegetables.

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

- 1) 2 to 32 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
- 2) 1.6 to 26 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 5.0 parts per million. For 0.5 parts per million, add 0.00047 gallons of product and 0.0018 gallons of (12.5%) bleach or 0.0019 pounds gas chlorine per 1,000 gallons of water treated.

This product and oxidant should be added at a rate not to exceed dosage of 55 parts per million (33.5 gallons of this product per one million gallons of water treated). The use of this product under this application must be followed by a potable water rinse to remove, to the extent possible, residue of the chemical.

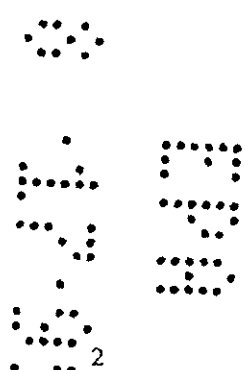
**Not Acceptable**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 10 1990

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

5185-450



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

When used as directed, 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 once-through fresh and sea water cooling systems, cooling ponds, canals, and lagoons; and disinfects 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) 2 to 32 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
- 2) 1.6 to 26 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

**Initial Dose:** When the system is noticeably fouled, add 0.0006 to 0.04 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.02 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.02 to 0.07 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

**Subsequent Dose:** When microbial control is evident, add 0.0002 to 0.04 gallons of this product per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.007 to 0.07 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

**PULP AND PAPER MILLS:**

When used as directed 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, white 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) 2 to 32 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution;
- 2) 1.6 to 26 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 5.0 parts per million. For 0.5 parts per million add 0.00047 gallons of product and 0.0018 gallons of (12.5%) bleach or 0.0019 pounds 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.

- 1. When a 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.

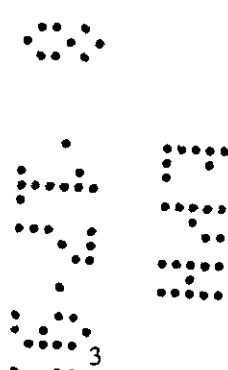
This product weighs 12.6 pounds/gallon at 70° F.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

NOV 10 1992

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

5185-450



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**STORAGE AND DISPOSAL:**

**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 50°F or above.

**DISPOSAL.** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **DO NOT REUSE EMPTY CONTAINER.** Triple rinse the container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate. Burn only if allowed by state and local authorities. If burned, stay out of smoke.

**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.

**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 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.

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

NOV 10 1999  
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