

Best Available Copy

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE
CAUSES IRREVERSIBLE EYE DAMAGE
EYE CONTACT MAY CAUSE LOSS OF VISION
HAZARDOUS IF SWALLOWED, INHALED OR ABSORBED
THROUGH THE SKIN

Avoid breathing vapors or spray mist. Do not get in eyes or on clothing. Avoid contact with skin. In case of contact immediately rinse skin with plenty of water. Get medical attention if irritation persists. Wear protective eyewear (goggles or face shield). Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

FIRST AID

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 inhaled	- Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. - Call a poison control center or doctor for further 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 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.	
NOTE TO PHYSICIAN "Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage."	

WASH THOROUGHLY AFTER HANDLING

BIOBROM® C-103L
DBNPA

A MICROBICIDAL BACTERICIDE, FUNGICIDE, ALGICIDE AND SLIMICIDE, USED IN TREATING RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS, PAPER MILLS, BREWERY PASTEURIZER WATER, METALWORKING CUTTING FLUIDS, NON-POTABLE REVERSE OSMOSIS SYSTEMS, ENHANCED OIL RECOVERY SYSTEMS, AIR-WASHER SYSTEMS, INDUSTRIAL PRESERVATION APPLICATIONS AND PUBLICLY-OWNED TREATMENT WORKS.

ACTIVE INGREDIENT: 2,2-Dibromo-3-nitropropionamide..... 20%
INERT INGREDIENTS: 80%
TOTAL: 100%

10 pounds BIOBROM® C-103L liquid per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER

See side panels for additional precautionary statements

EPA Reg. No. 8622-20

EPA Est. No. 81888-AL-01
EPA Est. No. 58616-PA-1
EPA Est. No. 47901-MI-01
EPA Est. No. 15298-IS-1

NET CONTENTS: _____ GALS. (LBS.)

WARRANTY

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

MANUFACTURED IN ISRAEL FOR:
AMERIBROM, INC.
2115 LINWOOD AVENUE
FORT LEE, NJ 07024
(201) 242-8560

ACCEPTED
SEP - 5 2001
Under the Federal Insecticide, Fungicide, and
Rodenticide Act as amended, for the
pesticide, registered under
EPA Reg. No. 8622-20

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not contaminate water by storage of equipment or disposal of waste. 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 sewerage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

CHEMICAL AND PHYSICAL HAZARDS

Reaction with strong reducing agents may be explosive. Avoid mixing.

STORAGE AND DISPOSAL

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

STORAGE

Store in a dark, cool, dry, well-ventilated area, not above 104°F (40°C), in well-closed original containers, away from energy sources, combustible organic materials, oxidizers and moisture.

DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

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

SPILLS

When handling or dealing with spills, use impact-resistant goggles with side shields, or face shield; wear body-covering clothes, including impervious rubber gloves and boots; use a respirator if misting occurs. Cover wet spills with 10% sodium bicarbonate solution, water and then an inert absorbent before sweeping up and disposing as described for pesticide disposal. If drum contents are contaminated or decomposing, before unloading drum in the open or in a well-ventilated area: flood with 10% sodium bicarbonate solution and large volumes of water if necessary.

KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE
TO MAINTAIN PRODUCT QUALITY, STORE IN THE DARK AT
TEMPERATURES BELOW 104°F (40°C).
DO NOT BURN WITH FOOD, FEEDS, DRUGS, OR CLOTHING
DO NOT SMOKE, DRINK, OR EAT WHEN HANDLING

DIRECTIONS FOR USE

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

DIRECTIONS FOR TREATING INDUSTRIAL RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS

NOTE: Add BIOBROM C-103L separately to the system. Do not mix it with other additives, so as to avoid decomposition of BIOBROM C-103L due to the high pH of many additive formulations. Add BIOBROM C-103L to the basin (or any other point of uniform mixing). Addition should be made via a metering pump; it may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the in-system retention time. Optimum performance with this product is achieved by continuous or intermittent treatment. If "shock" treatment is used, the blowdown should be discontinued for 24-48 hours.

FOR CONTROL OF BACTERIA

Add 0.0098-0.0098 gallons of BIOBROM C-103L / 1000 gal. of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 0.0024-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system every 4 days, or as needed to maintain control. Slightly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system.
Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00098-0.0048 gal. of BIOBROM C-103L / 1000 gal. of water in the system lost by blowdown. Slightly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 0.028-0.086 gallons of BIOBROM C-103L / 1000 gal. of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0024-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system daily, or as needed to maintain control. Slightly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system.
Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.0028-0.0098 gal. of BIOBROM C-103L / 1000 gal. of water in the system per day. Slightly fouled systems must be cleaned before treatment is begun.

DIRECTIONS FOR TREATING PULP AND PAPER MILL SYSTEMS

NOTE: Add BIOBROM C-103L separately to the system. Do not mix it with other additives, so as to avoid decomposition of BIOBROM C-103L due to the high pH of many additive formulations. For the control of slime-forming bacterial, fungal and yeast growth in pulp, paper and paperboard mills add BIOBROM C-103L levels of 0.15-0.50 lb./ton (dry) of pulp or paper produced. Addition can be continuous or intermittent, depending upon the type of system and the severity of contamination. Addition is via a metering pump at a point in the system that will ensure uniform distribution of BIOBROM C-103L in the mass of fiber and waste such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, as well as white-water tanks. Heavily fouled systems must first be bled out, if treated with 0.15-0.30 lb. of BIOBROM C-103L / ton (dry) of paper or pulp as necessary for control. Heavily fouled systems should be treated continuously with 0.35-0.50 lb. of BIOBROM C-103L / ton (dry) of paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.15-0.35 lb. of BIOBROM C-103L / ton (dry) of paper on a continuous or intermittent basis needed for control. Chlorinated effluents may cause irritation in the paper and a clean of the paper machine may be advisable. Slightly fouled systems should be treated continuously with 0.15-0.30 lb. of BIOBROM C-103L / ton (dry) of paper pulp, until the slime is controlled, then added on an intermittent basis to maintain control.

DIRECTIONS FOR TREATING NON-POTABLE REVERSE OSMOSIS SYSTEMS

For controlling bacteria, fungi and algae slimes in non-potable Reverse Osmosis systems and peripheral equipment, add BIOBROM C-103L to the system inlet water or before any other contamination area ahead of the Reverse Osmosis unit. BIOBROM C-103L should be added with a metering pump on an intermittent basis depending on the severity of contamination and the guidelines specified by the membrane manufacturer for BIOBROM C-103L. Add BIOBROM C-103L at the rate of 0.01 to 1.0 lb. (1 to 120 ppm) per 1000 gals of feedwater. During use of BIOBROM C-103L both permeate and reject waters should be directed to the drain. Once treatment is completed, treating with feedwater should continue until conductivity values in the permeate are at or below values before treatment with BIOBROM C-103L. Slightly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

Initial Dose: When the system is noticeably fouled, add BIOBROM C-103L at the rate of 0.05 to 0.1 lb. (5 to 12 ppm) per 1000 gals of feedwater.
Minimum treatment intervals should be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer.

Subsequent Dose: When microbial control is achieved, add BIOBROM C-103L at the rate of 0.025 to 0.1 lb. (3 to 12 ppm) per 1000 gals of feedwater as needed to maintain control or as specified by guidelines recommended by the membrane manufacturer.

FOR CONTROL OF FUNGI AND ALGAE

Initial Dose: When the system is noticeably fouled, add BIOBROM C-103L at the rate of 0.5 to 1.0 lb. (50 to 120 ppm) per 1000 gals of feedwater.
Minimum treatment intervals should be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer.

Subsequent Dose: When microbial control is achieved, add BIOBROM C-103L at the rate of 0.3 to 1.0 lb. (30 to 120 ppm) per 1000 gals of feedwater as needed to maintain control or as specified by guidelines recommended by the membrane manufacturer.

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DIRECTIONS FOR TREATING METALWORKING FLUIDS

CONTAMINATED WATER

BIOBROM C-103L is effective in metalworking fluid concentrates which have been contaminated with bacteria. Add 1000 gal of water to each gallon of concentrate. Add BIOBROM C-103L to the fluid in the metalworking fluid containing water. Add this product to the fluid in the collection tank. Additions should be made with a metering pump, initial or flag dose: When the system is noticeably fouled, add BIOBROM C-103L at the rate of 0.25 gal (2.65 lb) per 1000 gal of metalworking fluid in the system. Repeat until control is achieved.

Subsequent Doses: When microbial control is evident, add BIOBROM C-103L at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lb) per 1000 gal of metalworking fluid in the system. Repeat until control is achieved.

BIODROM C-103L should be added to metalworking fluid. Additions of BIOBROM C-103L can be made continuously or intermittently. Stop the system as required.

DIRECTIONS FOR TREATING BREWERY PASTEURIZER WATER

For controlling (inhibiting) the growth of bacteria, fungi and yeasts in brewery pasteurizing water systems, add BIOBROM C-103L at a point in the system to insure uniform mixing.

Initial or Flag Dose: When the system is noticeably fouled, add BIOBROM C-103L at the rate of 0.25 gal (2.65 lb) per 1000 gal of water in the system. Repeat until control is achieved.

Subsequent Doses: When microbial control is evident, add BIOBROM C-103L at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lb) per 1000 gal of water in the system. Repeat until control is achieved.

BIODROM C-103L should be added to pasteurizing water. Additions of BIOBROM C-103L can be made continuously or intermittently. Stop the system as required.

DIRECTIONS FOR TREATING PUBLICLY-OWNED AND OTHER BACTERIA

DIRECTIONS FOR TREATING PUBLICLY-OWNED AND OTHER BACTERIA

ADD BIOBROM C-103L at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity and contamination in the system. Addition should be CONTINUOUS and should be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add BIOBROM C-103L to the system in a location where contact time will be 30 minutes or greater before reaching the outlet.

TO USE AS A CO-TREATMENT WITH CHLORINE

Add 0.4 - 1.5 ppm BIOBROM C-103L by weight of water treated. Chlorination should result in a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level). Addition should be CONTINUOUS and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. BIOBROM C-103L should be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outlet.

DIRECTIONS FOR TREATING ENHANCED OIL RECOVERY SYSTEMS

NOTE: Add BIOBROM C-103L separately to the system. Do not mix it with other additives, so as to avoid decomposition of BIOBROM C-103L due to the high pH of many additive formulations. Addition of BIOBROM C-103L to the system should be made with a metering pump, initial or flag dose: When the system is noticeably fouled, add BIOBROM C-103L at the rate of 0.25 gal (2.65 lb) per 1000 gal of water in the system. Repeat until control is achieved.

Subsequent Doses: When microbial control is evident, add BIOBROM C-103L at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lb) per 1000 gal of water in the system. Repeat until control is achieved.

BIODROM C-103L should be added to enhanced oil recovery systems. Additions of BIOBROM C-103L can be made continuously or intermittently. Stop the system as required.

DIRECTIONS FOR TREATING AIR-WASHER SYSTEMS

ADD BIOBROM C-103L at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity and contamination in the system. Addition should be CONTINUOUS and should be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add BIOBROM C-103L to the system in a location where contact time will be 30 minutes or greater before reaching the outlet.

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ACCEPTED

SEP - 5 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 8022-20

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CONTAMINATED WATER

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Subsequent Doses: When microbial control is evident, add BIOBROM C-103L at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lb) per 1000 gal of water in the system. Repeat until control is achieved.

BIODROM C-103L should be added to pasteurizing water. Additions of BIOBROM C-103L can be made continuously or intermittently. Stop the system as required.

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