PM 32. 8622 - 20

CENTER PANEL

BIOBROM® C-103L

DBNPA

A MICROBIOCIDAL 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 AND AIR-WASHER SYSTEMS.

 ACTIVE INGREDIENT:
 2,2-Dibromo-3-nitrilopropionamide.
 20%

 INERT INGREDIENTS:
 80%

 TOTAL:
 100%

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

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT (First Aid)

if in eyes:

Hold eyelids open and flush with a steady, gentle stream of water for

15 minutes. Get medical attention.

If swallowed:

Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If

person is unconscious, do not give anything by mouth and do not

induce vomiting.

If on skin:

Wash with plenty of soap and water. Get medical attention.

If inhaled:

Remove victim to fresh air. If not breathing, give artificial respiration,

preferably mouth-to-mouth. Get medical attention.

WASH THOROUGHLY AFTER HANDLING

See side panels for additional precautionary statements

EPA Reg. No. 8622-20

EPA Est. No. 61688-AL-0*
EPA Est. No. 58616-PA-1
EPA Est. No. 47901-MI-01

EPA Est. No. 15298-IS-1

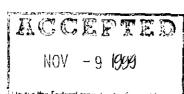
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WARRANTY

Seller warrants that this product conforms to its chemical description and is reasonablift 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 PURHOSE, express or implied, extends to the use of this product confrary 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 BY: AMERIBROM, INC. 52 VANDERBILT AVENUE NEW YORK, NY 10017 (212) 286-4000



Under the Federal insectionse. Fungions and Richlentional Act as amended, for the passibility in the Committee of the Commi

EPA Reg Nr. 8622-20

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE CAUSES IRREVERSIBLE EYE DAMAGE EYE CONTACT MAY CAUSE LOSS OF VISION **IRRITATING TO NOSE AND THROAT** MAY BURN THE SKIN MAY BE FATAL IF SWALLOWED

Do not breath mist or vapor. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (goggles, face shield, or safety glasses), and rubber gloves when handling. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated dothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning 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 sewage 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 misting

STORAGE AND DISPOSAL

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

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

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.

When handling or dealing with spills, use impact-resistant googles 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 arrivert absorbant before sweeping up and disposing as described for pesticide disposal. If drum contents are contaminated or decomposing, isolate unscaled drum in the open or in a wellventilated area: flood with 10% sodium bicarbonate solution and large volumes of water if necessary.

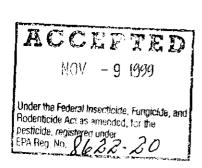
> KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE TO MAINTAIN PRODUCT QUALITY, STORE IN THE DARK AT TEMPERATURES BELOW 104°F (40°C). DO NOT SHIP WITH FOOD, FEEDS, DRUGS, OR ELOTHING DO NOT SMOKE, DRINK, OR EAT WHEN HANDLING

ACCEPTED NOV - 9 1999 Under the Federal Insacticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under 8621 EPA Red No

BIOBROM C-103L

LEFT PANEL

BIOBROM C-103L NEAR RIGHT PANEL



DIRECTIONS FOR USE

374

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 0.00095-0.0095 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 0.0048-0.0095 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 0.0024-0.0095 gal. of BIOBROM C-103L / 1000 gal. of water in the system every 4 days, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal. of BIOBROM C-103L / 1000 gal. of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal, of BIOBROM C-103L / 1000 gal, of water in the system lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095 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 0.048-0.095 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 0.029-0.095 gal. of BIOBROM C-103L / 1000 gal. of water in the system daily, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal. of BIOBROM C-103L / 1000 gal. of water in the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal. of BIOBROM C-103L / 1000 gal. of water in the system per day. Badly 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 at 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 water, such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, save-alls and white-water tanks. Heavily fouled systems must first be boiled out, then treated with 0.15-0.35 lb. of BIOBROM C-103L /ton (dry) of paper or pulp as necessary for control. Moderately 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 as needed for control. Dislodged slime may cause breaks in the paper and a clean-up of the paper machine may be advisable. Slightly fouled systems should be treated continuously with 0.15-0.35 lb. of BIOBROM C-103L flon (dry) of paper or 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 C103L 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 lbs (1 to 120 ppm) per 1000 gals of feedwater. During use of BIOBROM C-103L both permissite and reject waters should be directed to the drain. Once treatment is completed; rinsing with feedwater should continue until conductivity values in the permeate are at or below values before treatment with BIOBROM C-103L. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

Initial Dose: When the system is noticeably fouled, add BIOBRCM 2-103L at the rate of 0.05 to 0.1 lb (6 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

BIOBROM C-103L FAR RIGHT PANEL

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the casticide, registered under SP4 Reg. No Control Programme Control Programm

maintain control or as specified by guidelines recommended by the membrane

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 (60 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 (36 to 120 ppm) per 1000 gals of feedwater as needed to maintain control or as specified by guidelines recommended by the membrane manufacturer.

DIRECTIONS FOR TREATING METALWORKING FLUIDS CONTAINING WATER BIOBROM C-103L is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100 to 1:4. For controlling (or inhibiting) the growth of bacteria, fungi and yeasts that may deteriorate metalworking fluids containing water, add this product to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is noticeably fouled, add BIOBROM C-103L at the rate of 0.25 gal (2.65 lbs) per 1000 gals of metalworking fluid in the system.

Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add BIOBROM C-103L at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lbs) per 1000 gals of metalworking fluid per day, or as needed to maintain control. Additions of BIOBROM C-103L product can be made continuously or intermittently. Slug the system as required.

DIRECTIONS FOR TREATING BREWERY PASTEURIZER WATER

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

Subsequent Dose: When microbial control is evident, add BIOBROM C-103L at the rate of 0.1 to 0.2 gal (1.06 to 2.12 lbs) per 1000 gals of water per day, or as needed to maintain control. Additions of BIOBROM C-103L product can be made continuously or intermittently. Slug the system as required. Badly fouled systems must be cleaned before treatment is begun.

DIRECTIONS FOR TREATING ENHANCED OIL RECOVERY SYSTEMS

NOTE: Add 8/08ROM 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 may be made at the free water knockouts, before or after the injection pumps and injection well headers. For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm BIOBROM C-103L (0.1- 6.4 gallons of BIOBROM C-103L per 2400 barrels of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently. CONTINUOUS FEED METHOD

When the system is noticeably fouled, add 10-80 ppm BIOBROM C-103L (0.8-6.4 gal. of BIOBROM C-103L per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm BIOBROM C-103L (0.1-1.2 gal. of BIOBROM C-103L per 2400 barrels of water) continuously or as needed to maintain control.

INTERMITTENT OR SLUG METHOD

When the system is noticeably fouled or to maintain control of the system, add 10-80 ppm BIOBROM C-103L (0.8-6.4 gal. of BIOBROM C-103L per 2400 barrels of water) intermittently for 4-8 hours per day and from 1-4 times per week, or as needed depending on the severity of contamination.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding operations, add 15-80 ppm BIOBROM C-103L (1.2-6.4 gal. of BIOBROM C-103L per 2400 barrels of water). Additions of BIOBROM'C-103L should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to reduce loss of viscosity.

DIRECTIONS FOR TREATING AIR-WASHER SYSTEMS

Add 0.0015-0.095 gallons BIOBROM C-103L / 1000 gal of water in the system, depending on the severity of contamination, to control slime-forming bacteria and fungi in industrial air washing systems.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, 2dd 0.003-0.095 gal, BIOBROM C-103L / 1000 gal of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0015-0.047 gal BIOBROM C-103L / 1000 gal of water in the system every 2 days, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

Initial Dose: When the system is noticeably fouled, add 0.003-0.u95 pal_BIOBROM C-103L / 1000 gal of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0015-0.047 gai BIOBROM C-103L / 1000 gal of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

NOTE: For use only in industrial air-washer systems that maintain effective mist eliminating components.