

ENVIRO-BROM® 20L

A MICROBIOCIDE, BACTERICIDE, FUNGICIDE, ALGAECIDE AND SLIMICIDE, USED IN TREATING WATER FOR INDUSTRIAL RECIRCULATING COOLING, ENHANCED OIL AND OILFIELD SYSTEMS, RO MEMBRANES, PAPER MILLS, AND PRESERVATION.

ACTIVE INGREDIENT:

2,2-dibromo-3-nitriopropionamide. 18.3%

INERT INGREDIENTS. **81.7%**

TOTAL. 100.0%

Each gallon of this product contains approx. 2.1 lbs of active ingredient.

KEEP OUT OF REACH OF CHILDREN DANGER

See side panels for additional precautionary statements

FIRST AID	
If in eyes	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Move person to fresh airIf person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possibleCall a poison control center or doctor for further treatment advice
If on skin or clothing	<ul style="list-style-type: none">Take off contaminated clothingRinse skin immediately with plenty of water for 15-20 minutesCall a poison control center or doctor for treatment advice
If swallowed	<ul style="list-style-type: none">Call poison control center or doctor immediately for treatment adviceHave person sip a glass of water if able to swallowDo not induce vomiting unless told to do so by the poison control center or doctor<ul style="list-style-type: none">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. YOU MAY ALSO CONTACT 1-800-420-9236 FOR EMERGENCY MEDICAL TREATMENT INFORMATION	
NOTE TO PHYSICIAN "Probable mucosal damage may contraindicate the use of gastric lavage."	

MANUFACTURED BY:

Enviro Tech Chemical Services, Inc.
500 Winmoore Way, Modesto, CA 95358
(209) 581-9576

EPA Reg. No. 63838-11 EPA Est. No. 63838-CA-01

NET CONTENTS: _____ GALS. (LBS.)

LOT # _____

Item #: 042-V2x-10-08

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES SKIN BURNS. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Coveralls worn over long sleeved shirt and long pants
- Chemical resistant footwear plus socks
- Goggles or face shield
- Chemical resistant gloves (such as barrier laminate), neoprene rubber, nitrile rubber, or PVC
- Chemical resistant apron (for mixing/loading)

APPLICATION RESTRICTIONS: Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

ENGINEERING CONTROLS: When handlers are using closed metering systems the handler requirements may be reduced or modified to long-sleeved shirt, long pants, shoes and socks.

USER SAFETY REQUIREMENTS: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY INSTRUCTIONS: Users must wash hands before eating, drinking, chewing gum, using tobacco, or using toilet. User must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

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. **Do not store with foods, feeds, drugs, or clothing.**

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: Nonrefillable container. Do not use this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Clean container promptly after emptying. Offer for recycling if available.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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.

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 add an inert absorbent before sweeping up and disposing as described for pesticide disposal. If drum contents are contaminated or decomposing, isolate unsealed drum in the open or in a well-ventilated area; flood with 10% sodium bicarbonate solution and large volumes of water if necessary.

DIRECTIONS FOR USE

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

DIRECTIONS: FOR RECIRCULATING COOLING WATER:

NOTE: Badly fouled systems must be pre-cleaned by following manufacturer's product instructions before treatment is begun. Add Enviro-Brom 20L separately to the system. Do not mix it with other additives, so as to avoid decomposition of this product due to the high pH of many additive formulations. Add this product 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 a "shock" treatment is used the blow-down should be discontinued for 24-48 hours.

For initial routine control of bacteria add 0.00095-0.0095 gallons of this product / 1000 gallons of water, and for the control of fungi and algae add 0.029-0.095 gal of this product / 1000 gallons of water in the system, depending on the severity of contamination.

INTERMITTENT OR SLUG/SHOCK METHOD:

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal of this product / 1000 gallons of water in the system. For fungi/algae control add 0.048-0.095 gal of this product / 1000 gallons of system water. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0024-0.0095 gal of this product / 1000 gallons of water in the system every 4 days, or as needed to maintain control. For fungi/algae control add 0.029-0.095 gal of this product / 1000 gallons of system volume and daily or as needed to maintain control.

CONTINUOUS FEED METHOD:

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal of this product / 1000 gallons of water in the system. For fungi/algae control add 0.048-0.095 gal of this product / 1000 gallons of system water.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal of this product, or for fungi/algae control feed at the rate of 0.029-0.095 gal of this product / 1000 gallons of water in the system lost by blow-down.

DIRECTIONS: AIR WASHER SYSTEMS:

Badly fouled systems must be cleaned before treatment is begun. Only use this product in industrial air washer systems that maintain effective mist eliminating components. For initial routine control of slime forming bacteria and fungi add 0.0015-0.095 gal of this product / 1000 gallons of system water.

INTERMITTENT OR SLUG FEED METHOD: When the system is noticeably fouled, add 0.003-0.095 gal of this product / 1000 gal of system water. When microbial control is evident, add 0.0015-0.047 gal of this product / 1000 gal of system water every 2 days or as needed to maintain control.

CONTINUOUS FEED METHOD: When the system is noticeably fouled, add 0.003-0.095 gal of this product / 1000 gallons of system water. Maintain this level by pumping a continuous feed of 0.0015-0.047 gal of this product / 1000 gallons of system water per day.

DIRECTIONS: PULP AND PAPER MILL SYSTEMS:

This product is only for use in non-food applications, such as Brown Paper Mills, Sheet for Corrugated Board, Kraft paper, Newsprint, and similar paper/paperboard not intended for food contact uses. When used as directed this product effectively controls bacterial and fungal slimes in pulp, paper, and paperboard mill process systems including white water systems. Treat water at critical areas in the system where mixing of the product will be uniform such as beaters, furnish chest, white-water tank, save-all, and broke chest. The frequency and duration of the treatment will depend upon the severity of the problem.

Add this product separately to the system. Do not mix it with other additives, so as to avoid decomposition of this product due to the high pH of many additive formulations. For the control of bacterial, fungal and yeast growth in pulp, paper and paperboard mills add this product at levels of 0.15-0.50 lbs./ton (dry) of pulp or paper produced.

Heavily fouled systems must first be boiled out, then treated with 0.15-0.35 lbs. of this product / ton (dry) of paper or pulp as necessary for control.

Moderately fouled systems should be treated continuously with 0.35-0.50 lbs. of this product/ ton (dry) of paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.15-0.35 lbs. of this product/ 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 lbs. of this product/ ton (dry) of paper or pulp, until the slime is controlled, then added on an intermittent basis to maintain control.

Dislodged slime may cause breaks in the paper and a clean up of the paper machine may be advisable.

DIRECTIONS: ENHANCED AND SECONDARY OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, polymer or micellar floods or other oil field water systems, add 1-80 ppm of this product (0.1-6.4 gallons) per 2,400 barrels of water depending on the severity of the contamination. Additions should be made with a compatible metering pump either continuously or intermittently.

CONTINUOUS FEED METHOD:

When the system is noticeably fouled, add 10-80 ppm of this product (0.8-6.4 gal) per each 2,400 barrels of water continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm of this product (0.1-1.2 gal) per 2,400 barrels of water continuously or as needed to maintain control.

INTERMITTENT OR SLUG DOSE METHOD: When the system is noticeably fouled or to maintain control of the system, add 10-80 ppm of this product (0.8-6.4 gal) per each 2,400 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 the contamination.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding or fracturing (frac) operations, add 15-80 ppm of this product (1.2-6.4 gal) per 2,400 barrels of water. Additions of this product should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to reduce potential loss of viscosity.

DIRECTIONS: TREATING OILFIELD AND PETROCHEMICAL SYSTEMS

This product may be used either in slug treatment or in continuous application. Dosages may vary from as much as 200 ppm of this product in slug application to 10 to 50 ppm of this product in continuous treatment (1/4 pint this product per 1,000 gallons of water equals approximately 30 ppm).

A typical slug treatment is to add 1 pint of this product per 1,000 gallons at intervals as needed to prevent growth of microbial slime. Badly fouled systems may be slug treated as described above to establish control, followed by continuous treatment to maintain control.

DIRECTIONS: NON-POTABLE WATER REVERSE OSMOSIS SYSTEMS

This product may be used to control bacteria and reduce biofouling in industrial membrane systems, including UF and NF systems. Acceptable applications include boiler feedwater, wastewater, electronics and industrial membrane systems. This product may be fed at the rate of 1.3-13 fl oz / 1000 gallons of water (0.4-4.0 ml/min / 10 gallons of flow water).

DIRECTIONS: TREATING METAL WORKING FLUIDS

This product is an effective antimicrobial treatment for metal working and lubricating fluids that are water soluble. The point of addition of this product is recommended at the fluid collection tank using a metering pump.

INITIAL OR SLUG DOSING METHOD: When the system is noticeably fouled, add this product at the rate of 0.25 gal. (945 ml) per 1000 gal. of fluid to be treated. Repeat if necessary until control is achieved.

SUBSEQUENT DOSING: When microbial control is evident, add this product at the rate of 0.1-0.2 gal. per 1000 gal of metal working/lubricating fluid per day or as needed to maintain microbial control. Additions of this product may be made continuously or intermittently as necessary.

DIRECTIONS: INDUSTRIAL PRESERVATION USES

This product may be used in products such as paints, coatings, polymers, emulsions, clay slurries, lubricants, inks, polishes, etc. Add this product to the material or product at a concentration of 20 to 2,000 ppm by weight, which equals 0.08-8 gal of this product per 1000 gal of liquid to be treated. The amount required will depend on the material being treated and the level of contamination present.

Note: The following will help the user determine approximate end-use concentrations of the active ingredient per 1000 gallons of water at the various recommended product (volume) dose rates on this label: 0.0014 gal = 0.35 ppm; 0.0041 gal = 1 ppm; 0.008 gal = 2 ppm. Thus, likewise a 0.08 gal dose would = 20 ppm active ingredient. **(1 gal = 128 fl oz)**