A MICROBIOCIDAL BACTERICIDE, FUNGI-CIDE, ALGAECIDE
AND SLIMICIDE, USED IN TREATING RECYCLING COLDING 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-bis(2-chloroethyl)trimethylenemethanamine
CALCULATION: 2% OTHER INGREDIENTS: ................................................................. 98%
TOTAL: ............................................................................................................. 100%

KEEP OUT OF REACH OF CHILDREN

DANGER

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.

If on skin or clothing: Take off contaminated clothing.
Remove skin immediately with plenty of water for 15-20 minutes.
Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN

Probable mucosal damage may contaminate the use of gastric lavage.

See side panels for additional precautionary statements.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
DANGER

CORROSIVE: Causes irreversible eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe dust. When handling or cleaning work protective eyewear (goggles or face shield), wear long sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment: (PPE)

Long sleeve shirt, long pants, shoes, socks, eyeglasses, approved respirator, chemical-resistant gloves and a chemical resistant apron should be worn when handling.

User Safety Requirements

Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
Users must remove clothing immediately if possible after exposure.
Wash the outside of gloves before removing.
Keep and wash PPE separately from other laundry.

User must remove PPE immediately after handling this product.

Follow manufacturer's instructions for cleaning/removing PPE. If no such instructions for washable exist, use detergent and hot water.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add sufficient of this product to reach a concentration in the system of 11.5 – 23.0 ppm active ingredient, depending on the severity of contamination.

For the control of slime-forming bacterial, fungal, and yeast growth in pulp, paper, and paperboard mills, add this product at levels of 0.05 – 0.1 lb/day (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 pumping at a point in the system that will ensure a uniform distribution of this product in the mass of fiber and water, such as the beaters, Jordan inlet or discharge, break chests, furnish ovens, saw-aks and white-water tanks. Heavy fouled systems must be first bailed out, then treated with 0.002 – 0.07 lb/day of this product (dry) or paper or pulp as necessary for control. Moderately fouled systems must be treated continuously with 0.07 – 0.1 lb/day of this product (dry) or paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.03 – 0.07 lb/day of this product (dry) on a continuous or intermittent basis as needed for control. Glanded slimes may cause breaks in the paper and a clean-up of the paper machine may be advisable. Slightly fouled systems must be treated continuously with 0.03 – 0.07 lb/day of this product (dry) or paper or pulp until the slime is controlled, then added on an intermittent basis to maintain control.

TREATING PULP AND PAPER MILL SYSTEMS

NOTE: 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 slime-forming bacterial, fungal, and yeast growth in pulp, paper, and paperboard mills, this product is intended for addition at levels of 0.5 – 3.0 lb/day (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 pumping at a point in the system that will ensure a uniform distribution of this product in the mass of fiber and water, such as the beaters, Jordan inlet or discharge, break chests, furnish ovens, saw-aks and white-water tanks. Heavy fouled systems must be first bailed out, then treated with 0.002 – 0.07 lb/day of this product (dry) or paper or pulp as necessary for control. Moderately fouled systems must be treated continuously with 0.07 – 0.1 lb/day of this product (dry) or paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.03 – 0.07 lb/day of this product (dry) on a continuous or intermittent basis as needed for control. Glanded slimes may cause breaks in the paper and a clean-up of the paper machine may be advisable. Slightly fouled systems must be treated continuously with 0.03 – 0.07 lb/day of this product (dry) or paper or pulp until the slime is controlled, then added on an intermittent basis to maintain control.

TREATING NON-POTABLE REVERSE OSMOSIS SYSTEMS

For controlling bacteria, fungi and algae slimes in non-potable Reverse Osmosis Systems and peripheral equipment, add this product to the system inlet water or before any other contamination areas ahead of the Reverse Osmosis unit. This product must be added at a metering pump on an intermittent basis depending on the severity of contamination and the guidelines specified by the membrane manufacturer for this product. Add sufficient of this product to achieve a concentration of 0.2 – 24.0 ppm in the feedwater.

During use of this product both permeate and reject waters must be directed to the drain. Once treatment is completed, rinsing with feedwater must continue until conductivity values in the permeate are at or below values before treatment with this product. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

Initial Dose: When the system is noticeably fouled, add sufficient of this product to achieve a concentration in the system of 1.2 – 2.4 ppm active ingredient. The feedwater minimum treatment interval must 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, maintain a concentration of 0.7 – 2.4 ppm of this product in the feedwater, 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 12.0 – 24.0 ppm of this product to the feedwater. Minimum treatment intervals must 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, maintain a concentration of 7.3 – 24.0 ppm of this product in the feedwater, or as specified by guidelines recommended by the membrane manufacturer.

MIXING TREATING METALLURGICAL FLUIDS CONTAINING WATER

This product is effective in treating metalworking fluids containing water, metalworking fluids. Repeat until control is achieved – 20 – 25 ppm active ingredient. Make sure to mix slowly and regularly to prevent the sludge from settling.

Subsequent Dose: When microbial control is evident, maintain a concentration of 24.4 – 48.4 ppm of this product in the system, or as needed to maintain control. Additions of this product can be made continuously or intermittently. Skim the system as required.

TREATING BREWERY PASTEURIZER WATER

For controlling (or inhibiting) the growth of bacteria, fungi or yeasts in brewery pasteurizer water systems, add this product at a point in the system to ensure uniform mixing via metering pump or
CHEMICAL FEED DISPENSER WITH CONTROL RELEASE MECHANISM THAT ACCOMPANIES THIS PRODUCT'S CONTAINER.

Initial or Slug Dose: When the system is noticeably fouled, add sufficient of this product to achieve a concentration of 0.8 ppm active ingredient in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, maintain a concentration of 24.4 - 46.4 ppm of this product in the system, or as needed to maintain control. Addition of this product can be made continuously or intermittently. Slug the system as required. Badly fouled systems must be cleaned before treatment is begun.

TREATING ENHANCED OIL RECOVERY SYSTEMS

NOTE: Add this product separately to the system. Do not mix it with other additives, so as to avoid decompensation of this product due to the high pH of many additive formulations. Addition of this product may be made at the free water knockouts, before or after the injection pumps and injection well headers.

For controlling slime-forming bacteria, sulfur- and selenium bacteria, yeasts and fungi in oil field water, polymer or miscellaneous water-dispersed systems, or other oil field water systems, add sufficient of this product to achieve a concentration in feedwater of 0.2 - 18.0 ppm depending on the severity of contamination. Additional additions must be made with a metering pump either continuously or intermittently.

CONTINUOUS FEED METHOD

When the system is noticeably fouled, add 2 - 16 ppm of this product continuously until the desired degree of control is achieved. Subsequently, treat with 8.2 - 3.6 ppm of this product 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 2.0 - 10.0 ppm of this product 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 5 - 10 ppm of this product. Additional of this product must 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 sufficient of this product via metering pump or chemical feed dispenser with control release mechanism that accompanies this product's container to reach a concentration in the system of 0.35 - 22.1 ppm active ingredient, 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, add sufficient of this product to reach a concentration in the system of 0.7 - 22.1 ppm active ingredient. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add sufficient of this product every 2 days to reach a concentration in the system of 0.35 - 10.0 ppm active ingredient, 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 sufficient of this product to achieve a concentration in the system of 0.7 - 22.1 ppm active ingredient.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.35 - 10.9 ppm active ingredient in the system per day. Badly fouled systems must be cleaned before treatment is begun.

NOTE: For use only in industrial air washers that maintain effective mist eliminating components.

DIRECTIONS FOR INDUSTRIAL PRESERVATION APPLICATIONS

This product may be used to reduce microbiological contamination in all raw materials and/or products such as: aqueous paints and coatings, polymers, slurries, adhesives, latexes and resin emulsions, sizing, oiled, process water, along with petroleum products. The required concentration will depend on the material being treated and the level of contamination present.

DIRECTIONS FOR TREATING PUBLICLY-OWNED TREATMENT WORKS TO CONTROL COLIFORM AND OTHER BACTERIA

Add sufficient of this product to reach a concentration in the system of 0.2 to 2.0 ppm active ingredient by weight of water being treated, depending on the severity and contamination in the system. Addition must be CONTINUAL and must be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add this product to the system in a location where constant mixing will be achieved.

TO USE AS A CO-GOVERNING WITH CHLORINE

Add sufficient of this product to reach a concentration in the system of 0.1 to 0.3 ppm of this product active ingredient by weight of water treated. Chlorination must result in a minimum detectable residual (e.g., greater than zero but less than the NPDDES target level). Add sufficient of this product to achieve a concentration of 0.1 to 0.3 ppm active ingredient by weight of water treated. Chlorination must result in a minimum detectable residual (e.g., greater than zero but less than the NPDDES target level).

NOTE: For all other uses, refer to label instructions.

NOTE: Use of this product does not imply compliance with the National Pollutant Discharge Elimination System (NPDES) of the United States Environmental Protection Agency. Additional monitoring parameters may be required.

WARRANTY

Solvency with 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 to the extent consistent with applicable law, 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 FOR:

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EPA Reg. No. 85714-6
EPA Est. No.

NET CONTENTS: LBS. (KG)

BATCHLOT No.

Transportation Emergency (Spill) Tel: 800-265-3924 ChemTel