BACTICIDE 
COMMERCIAL MICROBICIDE
A microbiocide for controlling slime-forming and sulfate-reducing bacteria, fungi, yeast and algae. For use in sugar beet mills and process water systems; paper mills and associated process water systems; pigments and filler slurries for food and non-food contact paper and paperboard; non-food contact paper and paperboard; air washers and industrial scrubbing systems; recirculating cooling and process water systems; reverse osmosis membranes; heat transfer systems; service water and auxiliary systems; industrial wastewater systems including wastewater sludge and holding tanks; on-contact paper and paperboard; and aqueous metalworking fluids.

ACTIVE INGREDIENT
Calquaroxyl  45.0%
INERT INGREDIENTS
Calquat 50.0%
TOTAL 100.0%
EPA Reg. No.: 33753-27-66114

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID
If in eyes
• Hold eye open and rinse slowly and gently with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.
• Call a poison control center or doctor for treatment advice.

If on skin or clothing
• Rinse skin immediately with plenty of water for 15-20 minutes.
• If on a poison control center or doctor for treatment advice.

If swallowed
• Call a 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 a poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

If inhaled
• Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, if you know how, or mouth-to-mouth, if possible.
• Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN
Probable mucosal damage may contraindicate the use of gastric lavage.

DIRECTIONS FOR USE
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL USE DIRECTIONS
Add BACTICIDE-45B at a point of uniform mixing where the treated water is in contact with the system. Badly fouled systems should be cleaned before treatment begins. BACTICIDE-45B can be applied electrostatically or by continuous feed where stated. Where appropriate, feed points should be below the water line to minimize vapor.

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS.
RECIRCULATING COOLING AND PROCESS WATER SYSTEMS
Use only in existing systems to control biofilm-forming components. Badly fouled systems can be shocked treated by using the highest recommended rate of BACTICIDE-45B. Under these conditions, blowdown should be discontinued for up to 24 hours. Apply by intermittent or continuous feed methods.

Initial Dose: When the system is noticeably fouled, add 12.8–25.6 fl. oz. (111–222 ppm) of BACTICIDE-45B per 1,000 gal. of water in the system per day, or as needed to maintain control.

REVERSE OSMOSIS MEMBRANES
Use only where approved for compatibility by the membrane manufacturer. Immediate membrane in a tank containing 2,222 to 22,222 ppm BACTICIDE-45B for 6 to 24 hours. BACTICIDE-45B can be added to in-line recirculating systems of installed out of service osmosis equipment. Add 222 to 2,222 ppm BACTICIDE-45B to the tank on the circulating system and maintain this concentration by periodic addition to counteract any system flush. Flush the system through with clean water before service.

HEAT TRANSFER SYSTEMS

Initial Dose: When the system is noticeably fouled, add 12.8–25.6 fl. oz. (111–222 ppm) of BACTICIDE-45B per 1,000 gal. of water in the system per day.

Initial Dose: For maintenance, use a continuous feed of 5.1–12.8 fl. oz. (44–111 ppm) of BACTICIDE-45B per 1,000 gal. of water in the system per day.

SERVICE WATER AND AUXILIARY SYSTEMS
Use in systems such as fire water reservoirs, spray paint booths, and emergency cooling water systems. Dose initially at 12.8–25.6 fl. oz. (111–222 ppm) of BACTICIDE-45B per 1,000 gal. of water as the system per day.

WATER BASED COATINGS FOR NON-FOOD CONTACT PAPER AND PAPERBOARD
To inhibit the growth of slime microorganisms during manufacture, storage and distribution of pigments and filler slurries such as kaolin, calcium carbonate and talc-based pigments. Add BACTICIDE-45B to produce a concentration of 111–667 ppm by weight of the formulation slurry (1.1–6.7 lb of product per 10,000 lb. of slurry). Apply once during manufacture.

WATER BASED COATING LUBRICANTS
For use in paper coating, textile, leather and food processing systems. Thoroughly clean trays and conveyors to remove all cross contamination. Rinse paper with water and use an available automatic feed system to provide 1.5 to 9.3 fluid ounces (111 to 667 ppm) of BACTICIDE-45B per 100 lb. of diurel lubricant.

Avoid contamination of food in application of this product.

Throughout use in water-based coating lubrants in the State of California.

AQUEOUS METALWORKING FLUIDS
BACTICIDE-45B should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be added intermittently at intervals of one week or less.

Initial Dose: When the system is noticeably fouled apply 0.22 to 0.67 gal. per 1,000 lb. of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.09 to 0.44 gal. per 1,000 lb. of metalworking fluid to the system as needed to maintain control. BACTICIDE-45B should be cleaned before treatment begins.

Not for use in aqueous metalworking fluids in the State of California.

STORAGE AND DISPOSAL
Do not store in direct sunlight. Disposal of BACTICIDE-45B solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic lined steel, stainless steel or reinforced epoxy equipment. This product freezes at approximately –20°C (–4°F). Therefore, unless heating is needed, exposure to high temperatures should be avoided.

For short storage (1 month) temperatures up to 100°F can be tolerated; however, temperatures above 22°F for any maximum storage temperature is approximately 60°F. Keep away from fire and open flames. A stainless steel centrifugal pump is suggested for transferring. Storage at 70°F or above results in a reduction of 95% within 30 days.

Not for use in aqueous metalworking fluids in the State of California.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled or absorbed through the skin. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Avoid breathing of mist. Not to be used as an aerosol. Do not swallow. Prolonged or frequent high-concentration exposure to this material can cause irritation in certain individuals. May cause allergic reactions and dermatitis in some hyper-sensitivity reactors. Wear eye goggles, rubber gloves and protective clothing when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking and using the restroom. Remove contaminated clothing and clothing before leaving.

ENVIRONMENTAL HAZARDS
This product is toxic to fish. 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). Any person discharging this product to water without a permit has violated the Clean Water Act and may be subject to enforcement proceedings. You are required to notify the State or local authorities for approved alternative procedures.

Specific Precautions:
• Use a chemical waste minimization program.
• Dispose of the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

DRYING TIMES
These drying times are determined by visual inspection of the application surface.

1 hour or less – Aqueous metalworking fluids
4 hours – Aqueous water-based coatings
24 hours – Dry film coatings

In case of fire:
Use water, carbon dioxide, dry chemical (e.g. Sodium bicarbonate) extinguishing media. Fire fighters should be equipped with self-contained breathing apparatus and turn out gear.

Hazardous Waste
In case of chemical emergency: Call CHEMTREC day or night for assistance and information concerning spilled materials, fire, exposure and other chemical accidents. 800-424-9300.

Inhalation:
The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unexpected consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of the Seller. All users are advised to consult with the manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes intended above.

The MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. The manufacturer offers this product and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative.

Not for Resale
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ISO 9001

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