

BACTACIDE™ 45 WATER TREATMENT MICROBIOCID

A MICROBIOCID FOR USE IN CONTROLLED SLIME-FORMING BACTERIA, SULFATE-REDUCING BACTERIA, AND ALGAE. FOR USE IN AIR WASHERS AND IN INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS INCLUDING THOSE THAT CONTAIN REVERSE OSMOSIS MEMBRANES.

READ THE LABEL BEFORE USING

ACTIVE INGREDIENT:

Glutaraldehyde . . . 45.0%

REGISTRATION NO. 26979 PEST CONTROL PRODUCTS ACT

COMMERCIAL

DANGER

POISON



CORROSIVE



NET CONTENTS: _____

CHEM-AQUA

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DIRECTIONS FOR USE

DO NOT open pour more than 20 L of concentrate per day. Use an automatic addition system if using more than 20 L of concentrate per day.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/RECIRCULATING COOLING AND PROCESS WATER SYSTEMS.

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components.

BACTACIDE 45 Water Treatment Microbiocide should be added at the application rates described below, to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with BACTACIDE 45 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

BACTACIDE 45 Water Treatment Microbiocide can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled, apply 111 to 444 ppm product of BACTACIDE 45 Water Treatment Microbiocide or 111 ml to 444 ml of BACTACIDE 45 Water Treatment Microbiocide per 1000 Liters of water in the system. Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 33 ml to 111 ml of BACTACIDE 45 Water Treatment Microbiocide per 1000 Liters of water in the system weekly, 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, apply 111 to 444 ppm product of BACTACIDE 45 Water Treatment Microbiocide or 111 ml to 444 ml of BACTACIDE 45 Water Treatment Microbiocide per 1000 Liters of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 16 ml to 333 ml of BACTACIDE 45 Water Treatment Microbiocide per 1000 Liters of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

HEAT TRANSFER SYSTEMS: Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers. BACTACIDE 45 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir collecting area from which the treated water will be circulated uniformly throughout the system.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial/ territorial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial/ territorial regulatory agency. Contact the manufacturer and the provincial/ territorial regulatory agency in case of a spill, and for clean-up of spills.

STORAGE AND HANDLING

To prevent contamination, store this product away from food or feed.

BACTACIDE 45 Water Treatment Microbiocide solutions are incompatible with 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, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -17°C. Therefore, unless the storage tank is inside or

underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 38°C can be tolerated but the preferred maximum storage temperature is about 27°C. A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

The product in its undiluted form must not be used in a spray or aerosol application.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

PRECAUTIONS

HAZARDS TO HUMANS

DANGER

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyperactive individuals. Do not get in eyes, on skin, on clothing. Do not inhale fumes or vapor. Do not swallow.

Wear face shield, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling. Use only in well ventilated area. Remove contaminated clothing and shoes and wash them before reuse.

FIRST AID

IF SWALLOWED: Contact a poison control centre or doctor immediately for treatment advice. If the person is fully alert and cooperative, have the person rinse mouth with plenty of water. In cases of ingestion have the person drink 120-240 mL (4 to 8 ounces) of water. Do not induce vomiting. Do not attempt mouth rinse if the person has respiratory distress, altered mental status, or nausea and vomiting.

IF IN EYES: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses, if present, after the first 5 minutes and continue washing. Call a poison control centre or doctor immediately for 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 centre 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 centre or doctor for further treatment advice.

Take MSDS and, if available, the container, label or product name and Pest Control Product Registration Number with you when calling a poison control centre or a doctor, or when seeking medical attention.

TOXICOLOGICAL INFORMATION: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

ENVIRONMENTAL HAZARDS: This product is toxic to aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, ocean or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, ocean or other waters.

For medical or environmental emergencies, call CHEMTREC® at 1-800-424-9300.

MADE IN THE U.S.A.