

## **GLO-25 Liquid Microbiocide**

**COMMERCIAL  
INDUSTRIAL**

A microbiocide for controlling slime-forming bacteria, sulfate-reducing bacteria and algae in air washers and recirculating cooling water systems; service water and auxiliary systems; heat transfer systems; industrial wastewater systems.

REGISTRATION NO. 29039 PEST CONTROL PRODUCTS ACT

GUARANTEE: Glutaraldehyde 15%

READ THE LABEL BEFORE USING



**CORROSIVE**

Chemisphere Inc.  
5778 Rue Cypihot Saint-Laurent, Quebec  
H4S 1Y5  
FOR EMERGENCIES OR OTHER ENQUIRIES:  
514 339-7779

Net Contents: litres / kilograms

**PRECAUTIONS: HAZARDOUS TO HUMANS. DANGER**

**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye and skin damage. Causes skin burns. Harmful if swallowed. Harmful if inhaled. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in some hyper-reactive individuals. Do not get in eyes, on skin or on clothing. Do not inhale fumes or vapours. Do not swallow. When handling the concentrate and during cleaning, maintenance and repair activities on contaminated equipment, wear goggles and face shield, chemical resistant gloves, protective clothing (i.e. long sleeve shirt, long pants and apron) and rubber boots. Wash thoroughly with soap and water after handling. Use only in well ventilated area. Remove contaminated clothing and wash before re-use.

## **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 centre or doctor 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.

**If swallowed:** Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person. Take container, label or product name and Pest Control Registration Number with you when seeking medical attention.

## **TOXICOLOGICAL INFORMATION**

Corrosive. This product may produce a sensitisation response or allergic reaction in some individuals. Treat symptomatically.

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.

## **DISPOSAL**

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

## **STORAGE**

GLO-25 Liquid Microbiocide solutions are corrosive to many commonly used materials of construction such as steel, galvanised iron, aluminium, 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 about -6.5oC (43 oF) 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 (1 month) temperatures up to 38/C (100oF) can be tolerated; however, the preferred maximum storage temperature is approximately 27/C (80oF). Keep away from fire and open flames. A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON is suitable for gaskets and packing.

## **SPILLAGE**

Absorb onto sand, earth or inert mineral. Sweep up and remove the spillage to a polythethylene-lined container for subsequent correct disposal. Clean the area with detergent and water.

## **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. The user assumes the risk to persons or property that arises from any such use of this product.

## **DIRECTIONS FOR USE**

### **AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS:**

This product may be used only in industrial air washer systems which have mist-eliminating components. GLO-25 Liquid 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 GLO-25 Liquid Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours. GLO-25 Liquid 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, add 333 mL - 1333 mL of GLO-25 Liquid Microbiocide per 1,000 litres of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 100 mL - 333 mL of GLO-25 Liquid Microbiocide per 1,000 litres of water in the system weekly, or as needed to maintain control. Badly-fouled systems must be cleaned before treatment begins.

### **CONTINUOUS FEED SYSTEM**

**Initial Dose:** When the system is noticeably fouled, apply 333 mL - 1333 mL of GLO-25 Liquid

Microbiocide per 1,000 litres of water in the system.

**Subsequent Dose:** Maintain these treatments by starting a continuous feed of 50 mL - 333 mL of GLO-25 Liquid Microbiocide per 1,000 litres of water in the system per day. Badly-fouled systems must be cleaned before treatment begins.

### **PASTEURIZER COOLING WATER SYSTEM**

Avoid contamination of food in the application of product. GLO-25 Liquid Microbiocide should be used in the same use rates and use pattern as listed above. GLO-25 Liquid Microbiocide Should be added to the closed recirculating system at a convenient point such as a basin area, sump area, other reservoir or collection area from which the treated water will be circulating uniformly throughout the cooling system.

### **SERVICE WATER AND AUXILIARY SYSTEMS**

GLO-25 Liquid Microbiocide should be used in the same application rates, and in the same manner as for air washers and recirculating cooling waters. It should be added to the system at a point that will allow for uniform mixing throughout the system.

### **HEAT TRANSFER SYSTEMS**

**(Evaporative Condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)**

GLO-25 Liquid Microbiocide should be used at the same application rates, and in the same manner as described in the Air Washers and Recirculating Cooling Tower section 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.

### **INDUSTRIAL WASTEWATER SYSTEMS**

**(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)**

GLO-25 Liquid Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 1500 mL to 7500 mL of GLO-25 Liquid Microbiocide per 1000 litres of wastewater or sludge.