

Eclipse 606 Microbicide

SOLUTION

INDUSTRIAL

A microbicide for use in controlling bacteria and algae in air washer systems and in recirculating water cooler towers and systems including pasteurizer cooling water systems and industrial closed recirculating process water systems.

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**REGISTRATION NO.: 25828
PEST CONTROL PRODUCTS ACT**

ACTIVE INGREDIENT:

Glutaraldehyde 42.5%
Alkyl (C12 40%,C14 50%,C16 10%) dimethylbenzylammonium chloride. 7.5%

DANGER



CORROSIVE



POISON

Corrosive to eyes and skin.
Potential skin sensitizer.

NET CONTENTS: Litres

Keep From Freezing

Chemco Products Incorporated
1349 Grand Oaks Drive
Howell, MI 48843 USA
1-517-546-7800

**24-HOUR EMERGENCY TELEPHONE NUMBER:
1-800-424-9300**

DIRECTIONS FOR USE:

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

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/ RECIRCULATING and COOLING and PROCESS WATER SYSTEMS/ SERVICE WATER AND AUXILIARY SYSTEMS/HEAT TRANSFER SYSTEMS (Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, Pasteurizers and Once-Through Cooling water Systems)

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components. ECLIPSE 606 Microbicide should be added to a water treatment system at a point of uniform mixing such as the basin area, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly. Additions may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with ECLIPSE 606 Microbicide. Under these conditions, blowdown should be discontinued for up to 24 hours. ECLIPSE 606 Microbicide 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.

For **Once-Through Cooling water Systems**, deactivation must be conducted prior to discharge from the system by using bentonite clay at a minimum of 7.5 ppm of clay to 1 ppm of product. DO NOT apply ECLIPSE 606 more than four (4) times per year. The duration of treatment must not exceed 24 hours per application.

INTERMITTENT (SLUG DOSE) METHOD

Badly fouled systems must be cleaned before treatment is begun.

Initial Dose: When the system is noticeably fouled apply 100 mL-400 mL of ECLIPSE 606 Microbicide per 1000 litres of water in the system. Repeat until control is achieved. **Subsequent dose:** When microbial control is evident, add 30 mL-100 mL of ECLIPSE 606 Microbicide per 1000 litres of water to the system weekly, or as needed to maintain control.

CONTINUOUS FEED METHOD

Badly fouled systems must be cleaned before treatment is begun.

Initial dose: When the system is noticeably fouled apply 100 mL-400 mL of ECLIPSE 606 Microbicide per 1000 litres of water in the system. **Subsequent dose:** Maintain this treatment level by starting a continuous feed of 15 mL-100 mL of ECLIPSE 606 Microbicide per 1000 litres of water in the system per day.

INDUSTRIAL WASTEWATER SYSTEMS (Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

ECLIPSE 606 Microbicide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.5 Liters to 2.5 Liters (500 to 2500 ppm ECLIPSE 606 Microbicide) per 1000 Liters of wastewater or sludge.

WATER FLOOD AND INJECTION SYSTEMS

Add ECLIPSE 606 Microbiocide to a water flood or water injection system at a point of uniform mixing at rates from 20 to 1200 ppm of ECLIPSE 606 Microbiocide (0.02 litres to 1.2 litres ECLIPSE 606 Microbiocide per 1000 litres flood water).

Initial Treatment: When the injection water is noticeably contaminated, add ECLIPSE 606 Microbiocide to the system and repeat until control is achieved.

Subsequent dose: When microbial control is evident, add ECLIPSE 606 Microbiocide to the system weekly, or as needed to maintain control.

OFFSHORE - WATER FLOOD AND INJECTION SYSTEMS

Add ECLIPSE 606 Microbiocide to a water flood or water injection system at a point of uniform mixing at rates from 20 to 1200 ppm of ECLIPSE 606 Microbiocide (0.02 litres to 1.2 litres ECLIPSE 606 Microbiocide per 1000 litres flood water).

Initial Treatment: When the injection water is noticeably contaminated, add ECLIPSE 606 Microbiocide to the system and repeat until control is achieved.

Subsequent dose: When microbial control is evident, add ECLIPSE 606 Microbiocide to the system weekly, or as needed to maintain control.

OIL AND GAS FRACTURING FLUIDS

ECLIPSE 606 Microbiocide reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add ECLIPSE 606 Microbiocide to the fracturing water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole. Dose Range: Add ECLIPSE 606 Microbiocide at a rate of 120 to 500 ppm (0.12 litres to 0.5 litres ECLIPSE 606 Microbiocide per 1000 litres fracturing water) depending on the degree of bacterial fouling in the source water.

DRILLING MUDS and DRILLING, COMPLETION, WORKOVER AND PACKER FLUIDS

Add ECLIPSE 606 Microbiocide to an oilfield functional fluid system and packer fluids at a point of uniform mixing. Add 50 to 200 ppm of ECLIPSE 606 Microbiocide (0.05 litres to 0.2 litres ECLIPSE 606 Microbiocide per 1000 litres fluid) to a freshly prepared functional fluid, depending on the severity of contamination. For packer fluids, seal the treated fluid in the wall between the casing and production tube.

OFFSHORE - DRILLING MUDS and DRILLING, COMPLETION, WORKOVER and PACKER FLUIDS

Use in oil or gas exploration or production requires user to first obtain authorization from the appropriate Offshore Petroleum Board. Discharge of effluent containing this product must be in compliance with regulatory requirements.

Add ECLIPSE 606 Microbiocide to an oilfield functional fluid system and packer fluids at a point of uniform mixing. Add 50 to 200 ppm of ECLIPSE 606 Microbiocide (0.05 litres to 0.2 litres ECLIPSE 606 Microbiocide per 1000 litres fluid) to a freshly prepared functional fluid, depending on the severity of contamination. For packer fluids, seal the treated fluid in the wall between the casing and production tube.

OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

Add ECLIPSE 606 Microbiocide to an oil/gas production or transmission line via direct injection at rates from 20 to 1200 ppm of ECLIPSE 606 Microbiocide (0.02 litres to 1.2 litres ECLIPSE 606 Microbiocide per 1000 litres of water). The application should be conducted to ensure maximum distribution of ECLIPSE 606 Microbiocide throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the ECLIPSE 606 Microbiocide with an appropriate solvent (i.e. water, acetone or glycol) immediately before use. Injections to the system should be weekly, or as needed to maintain control.

PIPELINE PIGGING AND SCRAPING OPERATION

Add ECLIPSE 606 Microbiocide to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Add ECLIPSE 606 Microbiocide to a rate of 20 to 1200 ppm (0.02 litres to 1.2 litres ECLIPSE 606 Microbiocide per 1000 litres of water), depending on the length of the pipeline and the severity of biofouling.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. Harmful or 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 hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Do not inhale fumes or vapor. Do not swallow. Wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, chemical-resistant footwear, and eye protection 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.

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.

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 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. Call a poison control center or doctor for further treatment advice.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not give any liquid to the person. 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 Product Registration Number with you when seeking medical attention.

ENVIRONMENTAL PRECAUTIONS: This product is toxic to fish and other aquatic organisms. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters. The requirements of applicable laws should be determined before using the product

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.

DISPOSAL:

1. Triple-or pressure-rinse the emptied container. Add the rinsings to the treatment site.
2. Follow provincial instructions 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 requirements.
5. 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 a spill, and for clean up of spills.

STORAGE and HANDLING

ECLIPSE 606 Microbicide 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 -14° 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 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. To prevent contamination store this product away from food or feed.