

# KEYSTONE MB-202

THIS PRODUCT is recommended to control the growth of green algae (*Chlorella*, *Scenedesmus*), blue-green algae (*Phormidium*, *Anabaena*), anaerobic sulfate-reducing bacteria (*Desulfovibrio*) and aerobic heterotrophic bacteria (*Bacillus* sp., *Pseudomonas* sp.) in recirculating water cooling systems, evaporative condensers and in subsurface injection systems such as secondary and tertiary of recovery systems.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds or public water unless in accordance with an NPDES Permit. For guidance, contact the regional office of EPA.

### DIRECTIONS FOR USE GENERAL CLASSIFICATION

It is a violation of Federal law to use THIS PRODUCT in a manner inconsistent with its labeling.

THIS PRODUCT may be metered, pumped, gravity fed or poured from a suitable container into the treatment system. Centrifugal injection, piston or diaphragm pumps are satisfactory. Algicide feed pumps, meters and feed lines may be stainless steel, neoprene, glass, plastic or unpolished fiberglass.

**RECIRCULATING WATER COOLING TOWERS INITIAL TREATMENTS:** To a visually clean system or when algae or slime is first visible, add 25 to 50 ounces of THIS PRODUCT for each 1,000 gallons of water (195 to 390 ppm) in the system. Repeat in a dose at day intervals until algae and slime control is evident. Badly fouled systems should be cleaned before initiating treatment.

**MAINTENANCE TREATMENTS:** The frequency at which additional dosages must be added to control slime and algal growth can only be determined by experience, since each system will vary in water composition and in amounts and types of microorganisms present.

A treatment of this algicide once or twice a month or when algae or slime first appears is usually sufficient to control growth of green algae in cooling towers. To control some bacteria, a dose may be necessary once a week or once every two weeks. Use 18 to 38 oz. per 1,000 gallons of water (150 to 300 ppm) for subsequent dosages.

**FEEDING:** THIS PRODUCT may be fed directly from the drum, mixed with water and fed by any suitable method. Dose directly into the sump or any other convenient location providing good distribution of treatment.

## MICROBIOCIDE — ALGICIDE

Controls algae slime growth on recirculating water cooling towers and evaporative condensers  
Controls anaerobic sulfate-reducers and aerobic heterotrophic bacteria in oil field and petro-chemical water injection systems

<b>ACTIVE INGREDIENTS</b>	
Alkyl (C <sub>14</sub> 58%, C <sub>16</sub> 28%, C <sub>12</sub> 14%)	
dimethyl benzyl ammonium chloride	20%
<b>INERT INGREDIENTS</b>	80%
<b>TOTAL INGREDIENTS</b>	100%

## KEEP OUT OF REACH OF CHILDREN DANGER

**PRACTICAL TREATMENT (FIRST AID):** In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent convulsions may be controlled by cautious intravenous injection of a short-acting barbiturate drug.

SEE ADDITIONAL PRECAUTIONS ON SIDE PANEL

NOT FOR USE OR STORAGE AROUND THE  
HOME ENVIRONMENT  
FOR COMMERCIAL AND INDUSTRIAL USE ONLY

EPA Reg. No. 39743-1 EPA Est. No. 39743-AL-1

BEST DOCUMENT AVAILABLE



MANUFACTURED BY:

KEYSTONE LABORATORIES INC.

Decatur, Alabama

Net Contents

**OIL FIELD AND PETROCHEMICAL SUBSURFACE INJECTION SYSTEMS:** Biological requirements vary from site to site. Areas frequently requiring control are raw water sources, mixing tanks, screens, and the formation itself. The primary treatment location will vary from site to site depending on the site problems, water flood treatment methods and equipment. The microbicide should be applied where it will disperse most rapidly and uniformly to the desired area of treatment. This may be at screens, filters, pumps, mixing tanks, storage tanks to pre-treat water, to the water as it is pumped to the formation or it may be pumped directly to the formation.

**SLUG DOSES:** An effective treatment for aerobic heterotrophic bacteria is 100-400 ppm THIS PRODUCT (12 to 50 ounces per 1,000 gallons). A slug dose for anaerobic sulfate-reducers is 30-118 ppm of this Algicide (3.25 to 15 ounces per 1,000 gallons). The appropriate slug dose should be applied for three to eight hours daily until the desired level of control is achieved. To maintain the system in an acceptable manner, utilize a continuous treatment with the algicide or apply intermittent doses.

**INTERMITTENT DOSES:** To prevent a clean system from fouling, slug doses may be applied intermittently. The frequency of intermittent doses will vary with individual systems and can be established only through experience. Intermittent doses may be required 2 to 3 times a week in some systems. Other systems may require dosing once a week or once every two weeks. For heterotrophic bacteria, use 100-400 ppm THIS PRODUCT (12 to 50 ounces per 1,000 gallons). For anaerobic sulfate reducers, use 30-118 ppm THIS PRODUCT (3.25 to 15 ounces per 1,000 gallons). Maintain these doses for two to eight hours, depending upon the requirements of your system.

**CONTINUOUS TREATMENT:** Fouled systems should be slug treated to get initial control followed by continuous treatment to maintain control. Use 30 to 100 ppm THIS PRODUCT (3.75 to 12.5 ounces per 1,000 gallons). The lower dose concentration is usually satisfactory for *Desulfovibrio*. Higher doses may be needed for the aerobic heterotrophic bacteria.

## STORAGE AND DISPOSAL

1. **PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

2. **PESTICIDE DISPOSAL:** Pesticide or insecticide that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

3. **CONTAINER DISPOSAL:** (A) Reseal container and offer for reconditioning, or (B) triple rinse (or equivalent) and offer for recycling, reconditioning or disposal in approved landfill, or bury in a safe place.

4. **GENERAL:** Consult federal, state or local disposal authorities for approved alternate method.

ACCEPTED  
with COMMENTS  
MAY 15 1984

U.S. ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (HH-567)  
WASHINGTON, D.C. 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

TERM OF ISSUANCE

15 MAY 1984

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

**NOTE:** Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE