Bio-Guard WTB-10 is recommended to control the growth of green algae (Chlorelle, Scenedeamus), blue-green sigae (Phormidium, Anabaens), anaerobic sulfate-reducing becteria (Desulfovibrio) and aerobic heterotrophic bacteria (Bacile lus sp., Pasudomonas sp.) in recirculating water cooling systems, evaporative • • • e condensers and in subsurface injection systems, such as secondary and tertiary oil recovery systems.

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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. Weer goggles or face shield and nubber cloves when handling. Remove and wash contaminated clothing before

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not discharge into takes, streams, ponds, or public waters unless in accordance with an NPDES Pennit. 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

Bio-Guard WTB-10 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 sizel, neoprene, glass, plastic or unpigmented fiberglass.

RECIRCULATING WATER COOLING TOWERS:

Initial Treatments: To a visually clear system or when algae or slime is first visible, to sump water near pump sunction, add 50 to 100 ounces of Bio-Guard WTB-10 for each 1,000 gallons of water (390 to 780 ppm) in the system. Flepest initial dose at day intervals until algee 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 stime and algal growth can only be determined by experience, since each system will vary in water composition and in amounts and types of microorganiems 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 slime bacteria, a dose may be necessary once a week or once every two weeks. Use 38 to 77 oz. per 1,000 gallons of water (300 to 600 ppm) for subsequent dosages.

Feeting: Bio-Guard WTB-10 may be fed directly from the drum or diluted with water and fed by any suitable feed system. Dose directly into the sumo or any other convenient location providing good distribution of treatment.

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

BIO-GUARD WTB-10 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.

ACTIVE INGREDIENTS:	
Alkyl (C ₁₄ , 58%; C ₁₆ , 28%; C ₁₂ , 14%) dimethy benzyl	
ammonium chloride	10%
INERT INGREDIENTS:	90%
TOTAL INGREDIENTS	

KEEP OUT OF REACH OF CHILDREN DANGER

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

If swallowed, drink promptly a large quantity milk, egg whites, gelatin solution or if these are not available, drink large quantities of wat. Avoid alcohol. Call physician immediately. NOTE TO PHYSICIAN: Probable mucosal drage may contraindicate the use of gastric layage. Measure against circulatory shock a well as oxygen and measures to support breathing manually or mechanically may be eded. If persistent, convulsions may be controlled by cautious intravenous injection or short-acting barbituate drug.

SEE ADDITIONAL PRECATIONS ON SIDE PANEL

NOT FOR USE OR STORAGE ARCND THE HOME ENVIRONMENT FOR COMMERCIAL AND IDUSTRIAL USE ONLY

> A PRODCT OF BIO-LA, INC. Decatur, Gergia 30031

EPA Reg. No. 5185-327 EPA Est. No. 5185-GA-1

Net Contents: 55 U.S. Gallons

meament location will very from site to site depending on the site problems, water fined treatment methods and equipment. The microbiocide 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-filter water, to the water as it is pumped to the formation or it may be pumped directly to

\$1.11G DOSES: An affective treatment for aerobic heterotropic bacturia is 200-800 com Bio-Guard WTB-10 (26 to 103 ounces per 1,000 gallons). A slug dose for anaerobic sulfate-reducers is 60-230 ppm of this Algicide (8 to 30 ounces per 1,000 gallons). The appropriate stug 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 atoicide or apply intermittent doess.

DITERRETTENT DOSES: To present a class system from fouring, skip doses may be applied intermittently. The frequency of intermittent doesn 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 bacterie. use 200-800 ppm Bio-Guard WTB-10 (26 to 103 ounces per 1,000 dialions). For anaerobic sulfate reducers, use 60-230 porn Bio-Guard WTB-10 (8 to 30 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 60 to 200 ppm Bio-Guard WTB-10 (8 to 26 ounces per 1,000 gallons). The lower dose concentration is usually satisfactory for Desultovibrio. Higher doses may be rill aerobic heterotrophic bacteria.

ACCEPTED

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Under the Federal Insecticitie, Fungicide, and Rodenticide Act. as amended, for the pesticide STORAGE AND DISPOSAL registered under 5/85-32

- 1. PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL, OPEN DUMPING IS PROHIBITED.
- 2. PESTICIDE DISPOSAL; PESTICIDE OR RINSATE 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 LAND-FILL, OR BURY IN A SAFE PLACE.
- 4. GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AU-THORITIES FOR APPROVED ALTERNATE METHOD.