

### HL-420 WATER TREATMENT MICROBICIDE

Water Treatment Microbicide for Building and Industrial  
Cooling Towers and Oil Field Water Flood or Salt Water Disposal Systems

HL-420 WATER TREATMENT MICROBICIDE will control algae and bacterial slimes found in recirculating cooling tower waters. HL-420 WATER TREATMENT MICROBICIDE helps clean and loosen slime debris from cooling system surfaces. When used in slug doses, no other microbicide is required. HL-420 WATER TREATMENT MICROBICIDE is economical to use because it is concentrated. It should be handled with care.

#### Directions for Use GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

To control algae and bacterial slimes, use HL-420 as directed. For best results, slug feed. The frequency of addition of microbicide needed depends on many factors. To optimize your use of HL-420, follow this procedure:

#### Recirculating Cooling Towers

1. Initially use 6 fluid ounces per 1000 gallons of water to be treated (20 ppm active quaternary). Should the above dosage not give satisfactory results, use 9 fluid ounces per 1000 gallons of water. Repeat the initial dose every seven days or increase the frequency if needed.
2. When the above treatment level is successful, use 2 to 3 fluid ounces per 1000 gallons of water to maximize efficiency. Repeat weekly as needed. Should slime develop again, go back to initial dosage.

Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages. Slug feed every seven days. Dilute the appropriate amount of HL-420 in 1 or 2 gallons of water, then add to the tower. Should tower be heavily fouled, a pre-cleaning is required. Oil Field Water Flood or Salt Water Disposal Systems (Do not apply in Marine and Estuarine Oil Fields).

1. For the control of slime forming and sulfate reducing bacteria in oilfield water flood or salt water disposal systems, add 5-10 ppm (active) HL-420 (1 1/2 - 3 gallons per 3000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.
2. For intermittent use, dose at a rate of 5-20 ppm (active) HL-420 (1 1/2 - 6 gallons per 3000 barrels of water) for 3-8 hours per day, one to four times a week as needed to maintain control.

Add HL-420 directly from the drum with the proper type of metering equipment.

#### ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride

50.0%

#### INERT INGREDIENTS:

Total

50.0%

100.0%

**DANGER: KEEP OUT OF REACH OF CHILDREN**  
**ONLY FOR SALE TO, USE, AND STORAGE BY SERVICE PERSONS.**

#### STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes severe eye and skin damage. Do not get in eyes or on skin. Wash contaminated clothing before reuse. Wear goggles or face shield and rubber gloves when handling the concentrate. Harmful or fatal if swallowed. Avoid contamination of food.

##### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the Environmental Protection Agency.

##### PHYSICAL AND CHEMICAL HAZARDS

HL-420 is a cationic germicide. Do not mix with soap or anionic materials. Do not use or store near heat or open flame.

#### STORAGE AND DISPOSAL

This product must be kept under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

#### PESTICIDE DISPOSAL

Pesticide spray mixture that cannot be used or chemically reprocessed should be disposed of in a landfill, ~~accounted for~~ *accounted for* pesticides, or buried in a safe place away from water supplies.

#### CONTAINER DISPOSAL

Triple rinse (or equivalent) and dispose of in an approved (or land fill approved for pesticide) containers, or bury in a safe place. Consult federal, state, or local authorities for approved alternative procedures, such as limited open burning.

REGISTRATION DIVISION

001-10-1002

Registration Division (107-7)