

The presence of foam in recirculating cooling towers impairs the performance of the unit. Loss of heat transfer and pressure fluctuations are two of the problems encountered when foam is present in the recirculating water system.

One of the possible causative agents is the micro-organisms added to control algae and algae slimes. ALPHA 521 Low Foam Water Treatment Microbiocide, by design, is a low foaming microbiocide. When used as directed, ALPHA 521 Low Foam Water Treatment Microbiocide will control algae and algae slimes found in recirculating cooling tower waters and not introduce a foam problem.

ALPHA 521 Low Foam Water Treatment Microbiocide helps clean and loosen slime deposits from cooling system surfaces. When used in slug doses, no other microbiocide is required.

ALPHA 521 Low Foam Water Treatment Microbiocide is economical to use because it is concentrated. It should be handled with care.

## **DANGER**

Keep Out of Reach of Children. Corrosive. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

### **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 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.

# **ALPHA 521**

## **LOW FOAM WATER TREATMENT MICROBIOCIDE**

Twin-Chain Quaternary  
Ammonium Compound Concentrate

Low Foam Water Treatment Microbiocide  
for Building and Industrial  
Cooling Towers

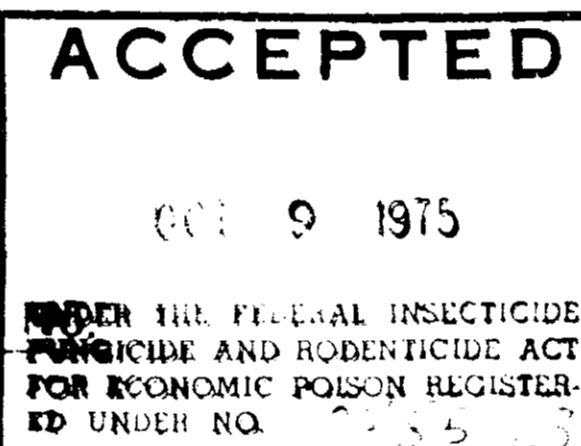
### **Active Ingredients**

Diocetyl dimethyl ammonium chloride 50%  
Ethyl alcohol 10%

### **Inert Ingredients**

**ACCEPTED** 40%  
100%

### **EPA Registration**



10465-13

### **Net Weight**

440 lbs.

### **Net Volume**

55 gallons

MANUFACTURED BY

## **UNITED CHEMICAL CORPORATION**

OF NEW MEXICO

401 N. 2nd St. P.O. Box 100  
HOPKINS, NEW MEXICO 88024

## **DANGER**

KEEP OUT OF REACH OF CHILDREN. SEE  
LEFT PANEL FOR ADDITIONAL PRECAU  
TIONARY STATEMENTS

### **USE-DIRECTIONS**

To control algae and algae slimes, use ALPHA 521 Low Foam Water Treatment Microbiocide as directed. For best results, slug feed. The frequency of addition of microbiocide needed depends on many factors. To optimize your use of ALPHA 521, follow the procedure:

1. Initially use 16 fluid ounces per 1000 gallons of water to be treated and apply active quaternary. Should the above dosage not give satisfactory results, use 21 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 6 to 9 fluid ounces per 1000 gallons of water to maximize efficiency. Repeat weekly as needed. Should slime develop again, return to initial dosage.

Cooling tower waters that are inherently low in algae growth may be adequately controlled by the lower range of these dosages. Do feed every seven days.

Dilute the appropriate amount of ALPHA 521 Low Foam Water Treatment Microbiocide in 1 to 2 gallons of water then add to the sump of the tower. Note, this product weighs 8.0 lbs. per gallon (at 20°C).

This product is toxic to fish. Treatate effluent should not be discharged into streams, lakes, or public water.

Should lower be heavy rain, no spraying is required.

Do not reuse empty drum. Return to manufacturer or destroy by crushing and burying in a safe place away from water supplies.

**DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.**

REGISTRATION DIVISION  
EPA