

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 microbiocide added to control algae and algae slimes. DART-472, by design, is a low foaming microbiocide. When used as directed it will control algae and algae slimes found in recirculating cooling tower waters and not introduce a foam problem.

Precautionary Statements

Hazards to Humans and Domestic Animals

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Treatment effluent should not be discharged where it will drain into lakes, streams, ponds, or public water unless in accordance with an NPDES permit. For guidance contact regional EPA office.

PHYSICAL HAZARDS

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

STORAGE AND DISPOSAL

- DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.
- OPEN DUMPING IS PROHIBITED.
- DO NOT REUSE EMPTY CONTAINER.

PESTICIDE DISPOSAL

PESTICIDE THAT CANNOT BE USED, OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES.

CONTAINER DISPOSAL

DISPOSE OF IN AN INCINERATOR OR LANDFILL APPROVED FOR PESTICIDE CONTAINERS. BURY IN A SAFE PLACE OR RETURN TO DRUM RECONDITIONER.

GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

DART-472

Twin-Chain Quaternary Ammonium Compound Concentrate
Low Foam Water Treatment Microbiocide for Building and Industrial Cooling Towers

Active Ingredient	
Diocetyl dimethyl ammonium chloride	10%
Inert Ingredients	90%
	100%

This Product contains .82 lbs. of A.I. per gallon.

KEEP OUT OF REACH OF CHILDREN.

DANGER

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. 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.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No. 35495-9
EPA Establishment No. 35495-OR

Manufactured By:

Chemax, Inc.
2106 N.W. 24th Ave. • Portland, OR 97210

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 algae slimes, use DART-472 as directed. For best results, slug feed. The frequency or addition of microbiocide needed depends on many factors. To optimize your use of this product, follow this procedure:

1. Initially use 80 fluid ounces per 1,000 gallons of water to be treated (80 ppm active quaternary). Should the above dosage not give satisfactory results, use 105 fluid ounces per 1,000 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 30 to 45 fluid ounces per 1,000 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; slug feed every seven days. Dilute the appropriate amount of DART-472 in 1 to 2 gallons of water then add to the sump of the tower. Note, this product weights 8.19 lbs. per gallon (at 20°C).

Should tower be heavily fouled, a pre-cleaning is required.

NET WT. _____

??