



BROOKS Chemicals
 CLEVELAND, OHIO ACCEPTED TORONTO, ONTARIO
 Sept 26 1978 4297-17

H-C TREATMENT No. 478

CONCENTRATED ALGAECIDE FOR INDUSTRIAL RECIRCULATING WATER COOLING SYSTEMS

E. P. A. Reg. No. 4297-17

NET CONTENTS ----- GAL.

Active Ingredients:

n - Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chlorides -----	5%
n - Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chlorides -----	5%
Inert Ingredients -----	90%
	<u>100%</u>

DANGER: Keep Out of Reach of Children. Corrosive.

Causes eye damage and skin irritation. 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.

DIRECTIONS FOR USE: When algae are visible, add an initial dosage of 1 to 2 gallons of No. 478 per 5,000 gallons of water in the system. Repeat if necessary until control is evident. When control is evident, use a subsequent dose of 1 to 3 quarts of No. 478 per 5,000 gallons of water in the system every 7 days, as needed to maintain control. Add No. 478 directly to the cooling tower drip pan near the inlet to the recirculating pump.

When H-C Treatment No. 478 is used as directed, it will aid in controlling and/or preventing the development of unsanitary algal slime conditions which are unsightly, produce foul odors and which are often the cause of equipment breakdown. No. 478 is compatible with virtually all corrosion inhibition additives, but should not be used in the presence of soap or other anionic detergents.

For best results, clean heavily contaminated systems before treatment with this product. If soap or anionic detergent is used, rinse thoroughly before charging with No. 478. Do not be alarmed with the sudden appearance of organic debris in the system during the first week of operation. This is normal and is a good indication that No. 478 has effectively penetrated and dislodged dead organic material which tenaciously adheres to metal and wooden surfaces as living matter. This debris should be removed from the system to avoid clogging of screens and pipes.

Rinse empty container thoroughly with water and discard.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water.

FOR INDUSTRIAL USE ONLY