

LONZA

UNIQUAT CB-50

For the Manufacture, Repackaging, or Formulation of Broad Spectrum Water Treatment Microbiocides (Algaecide, Bactericide)

Active Ingredients: 1-Hydroxyethyl-1-Benzyl-2-Alkyl (as in fatty acids derived from coconut oil) Imidazo-linium Chloride50.0%
 Isopropyl Alcohol.....50.0%
 100%

55 Gallons/Net Wt. 400 lbs.

EPA Reg. No. 6836-45

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 if absorbed through the skin. Harmful or fatal if swallowed. Avoid contamination of foods.

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 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 as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbiturate drug.

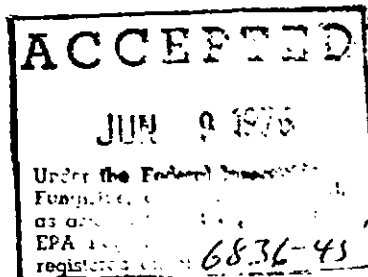
This product is toxic to fish. Do not discharge where it will drain into lakes, streams, ponds or public water.

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

See Product Information Bulletin for recommended use.

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

LONZA, INC. - FAIRLAWN, N.J., 07410 - PEORIA, ILL. 61547



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PRODUCT INFORMATION

UNIQUAT[®]
CB-50

CHEMICAL PROPERTIES

Active Ingredients

1-Hydroxyethyl-1-Benzyl-2-Alkyl (as in fatty acids derived
from coconut oils) Imidazo-*linium* Chloride 50%

Isopropyl Alcohol 50%

100%

Physical Properties

Specific Gravity..... 0.932 (7.76 lbs/gal.)
Appearance..... Dark amber, clear to turbid liquid
Viscosity (Spindle #2 @ 20°C)..... 56 cps
Flash Point (COC) 89°F
Freezing Point..... 25°C

EPA Registration Number 6836-45

APPLICATION

UNIQUAT CB-50 is a unique microbiocide which is effective for use in recirculating cooling water systems.

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FIELD EVALUATIONS

UNIQUAT CB-50 was field tested over a wide range of field conditions and effective microbial control was observed against bacteria (including slime formers), fungi, yeast, mold and algae.

Field trials performed indicated an initial treatment dosage of 25-50 ppm and maintenance use levels of 10-15 ppm (active) **UNIQUAT CB-50**.

The quantity of **UNIQUAT CB-50** required to effectively control microbial growth in recirculating cooling towers is dependent on a number of variables. Tower operating conditions, water quality, the severity of the microbiological problems, etc. are just some of these factors. Each situation will require a determination of the optimum quantity of **UNIQUAT CB-50** that is required for peak operating performance.

A sample label for a water treatment microbiocide based on **UNIQUAT CB-50** for use in recirculating cooling towers is attached. This may be used as a guide in registering your product with the U.S. Environmental Protection Agency.

HANDLING PRECAUTIONS FOR UNIQUAT CB-50 QUATERNARY CONCENTRATE

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 if absorbed through the skin. Harmful or fatal if swallowed. Avoid contamination of foods.

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

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

Do not use, pour, spill or store near heat or open flame.

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••• ••• Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated
••• ••• above. Buyer assumes all risk of use and/or handling of this material when such use and/or
••• ••• handling is contrary to label instructions. No statement is intended or should be construed as a
••• ••• recommendation to infringe any existing patent.

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