

Mason Chemical Company

"The Quaternary Specialist"

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Health 3

Fire 2

Reactivity 0

Section 1: Identity

Trade Name: MAQUAT 4450-E QLF ALGAECIDE, LF ALGAECIDE
Chemical Family: Quaternary Ammonium Compounds
Formula: $[C_{10}H_{21})_2-N-(CH_3)_2]-Cl$
Chemical Name: Didecyl dimethyl ammonium chloride
C.A.S. No.: 7173-51-5
DOT Proper Shipping Name: Disinfectants, Liquids, Corrosive NOS (Quaternary Ammonium Compound), 8, UN1903, P.G.II

Section 2: Hazardous Ingredients

	<u>Weight</u>	<u>TWA/TLV</u>
Didecyl dimethyl ammonium chloride	50.0%	ND
Ethanol 64-17-5	5%-10%	1000 ppm

Section 3: Physical and Chemical Characteristics (Fire & Explosion Data)

Boiling Point: ND
Percent Volatile (by weight) 50%
Solubility In Water: Soluble
Appearance and Odor: Colorless to light straw in color
Benzaldehyde Odor
Specific Gravity: (H₂O = 1) 0.91 - 0.94
Flash Point: 109°F PMCC
pH 6-8
Evaporation Rate Butyl Acetate=1 ND
Vapor Pressure: ND
Vapor Density (Air = 1) Heavier than air
Auto Ignition Temp.: ND
Lower Explosion (%): ND
Upper Explosion (%): ND
Extinguishing Media: Dry Chemical, Water Fog, CO₂, Foam

Special Fire Fighting Procedures:

Cool fire exposed containers with spray, Must wear MSHA/NIOSH approved self contained breathing apparatus.

Unusual Fire Explosion Hazards:

Explosive mixtures can form with air. Combustion products are toxic. Solvents vapors can travel to an ignition source and flash back.

Section 4: Physical Hazards

Stability: Stable

Incompatibility: Strong oxidizers or reducing agents

Hazardous Polymerization: Will not occur

Conditions to avoid: NA

Conditions to avoid: Mixing with strong oxidizers or reducing agents

Hazardous Decomposition Products: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen.

Section 5: Health Hazards

Routes of Entry: Skin Contact, Inhalation, Eye Contact.

Inhalation: Irritation of mucous membrane can be caused by solvent vapors or mists of products.

Eye Contact: Corrosive. Severe eye damage can result from direct contact.

Skin Contact: Severe Irritation. Corrosive.

Ingestion: May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.

First Aid:

Skin and eye: In case of contact, immediately flush the eyes and skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

Ingestion: If swallowed drink promptly, a large quantity of 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.

Chemicals Listed as Carcinogen by:

OSHA	-NO
I.A.R.C. Monographs	-NO
National Toxicology Program	-NO

Section 6: Toxicity

Acute Oral LD₅₀ 580 mg/kg for males and females combined

Acute Dermal greater than 2000 mg/kg

Primary Skin - Severe Irritant. Corrosive.

Primary Eye - Corrosive

Section 7: Special Protection Information

Ventilation type: mechanical (Explosion proof)

Respiratory Protection: None required if good ventilation is maintained. For mist or vapor wear NIOSH Approved respirator.

Protective Gloves: Rubber or Neoprene

Eye Protection: Splashproof safety goggles

Other Equipment: Impervious apron, eyewash facility, emergency shower, faceshield.

Section 8: Special Precautions and Spill/Leak Procedure

Handling and Storage: Keep from freezing. Store in original container.

Spill and Leak Procedure: Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes.

Waste Disposal: Incinerate. Make sure that all federal, state and local regulations are observed.

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