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PHOENIX PRODUCTS CO. 55 Container Drive Terryville, CT 06786 (860) 589-7502	* PRODUCT NAME: STD 10% Algaecide	MATERIAL SAFETY DATA SHEET 11/1/01
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**SECTION I - IDENTIFICATION**

**SYNONYMS:** n-Alkyl (60%C14, 30%C16, 5%C12, 5%C18) Dimethyl Benzyl Ammonium Chlorides-9.96% dialkyl (60%C14, 30%C16, 5%C12, 5%C18)Methyl Benzyl Ammonium Chlorides - 0.04%

**CHEMICAL FAMILY:** Quaternary Ammonium Compounds

**CHEMICAL FORMULA:** [R<sub>1</sub>-N(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>]<sup>+</sup> Cl<sup>-</sup>

**TRADE NAME:** STD 10% Algaecide

**DESCRIPTION:** Biege liquid having a Bezaldehyde odor.

**CAS NO.** 68391-01-5 / 73049-75-9

**HMIS HAZARD RATINGS:** Health Hazard: 3                      Fire Hazard: 1                      Reactivity: 0

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**SECTION II - PHYSICAL DATA**

<b>Boiling Point:</b> N/A	<b>Freezing Point:</b> N/A
<b>Percent Volatile (by wt.):</b> N/A	<b>pH:</b> 6-8
<b>Solubility In water:</b> Soluble	<b>Evaporation Rate Butyl Acetate = 1:</b> N/A
<b>Specific Gravity: (H2O=1)</b> N/A	<b>Vapor Pressure:</b> Approx. 24mmHg

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**SECTION III - HAZARDOUS INGREDIENTS**

MATERIAL	% wt.	TWA/TLV
Alkyl Dimethyl Benzyl Ammonium Chloride	9.96%	N/A
Dialkyl Methyl Benzyl Ammonium Chloride	0.04%	N/A

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** 200°F PMCC                      **Auto Ignition Temp.:** N/A

**Flammable Limits in Air % by Volume:** N/A

**Extinguishing Media:** Dry Chemical, Water, CO<sub>2</sub>, Foam.

**Special Fire Fighting Procedures:** Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self contained breathing apparatus.

**Unusual Fire Explosion Hazards:** None

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**SECTION V - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:**

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

**Inhalation:** Solvent may cause irritation of mucous membrane.

**Skin Contact:** Severe Irritation

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

**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.

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**SECTION VI - EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Remove patient to fresh air.

**SKIN:** In case of contact, flush skin with plenty of water for at least 15 minutes. Call a physician. Remove and wash contaminated clothing before reuse.

**EYE:** Immediately flush with plenty of water for at least 15. Consult a physician.

**INGESTION:** Promptly drink 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.

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**\* SECTION VII - TOXICOLOGY**

**Oral LD50:** N/A

**Eye Irritation:** Corrosive

**Skin Irritation:** Severe Irritant

**Acute Dermal:** N/A

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**CHEMICAL NAME:**  
Dimethyl Benzyl Ammonium Chlorides -  
Methyl Benzyl Ammonium Chlorides

**TRADE NAME:** STD 10% Algaecide

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### SECTION VIII - REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** N/A

**Incompatibility (materials to avoid):** Strong oxidizers or reducing agents.

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

**Hazardous Polymerization:** Will not occur.

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### \*SECTION IX - SPILL, LEAKAGE & DISPOSAL PROCEDURES

**Steps to take if material leaks or spills:** 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 method:** Incinerate. Must comply with all Federal, State and Local regulations.

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### SECTION X - SPECIAL PROTECTION INFORMATION

**Ventilation type:** Mechanical

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

**Protective Gloves:** Rubber or Neoprene

**Eye Protection:** Splash-proof safety goggles

**Other Equipment:** Impervious apron, eyewash facility, emergency shower, face shield.

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### SECTION XI - SPECIAL PRECAUTIONS DATA

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

**Other:** None

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### SECTION XII - TRANSPORTATION INFORMATION

This material is not regulated as a DOT hazardous material.

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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