

Material Safety Data Sheet

1. Product and Company Identification

Effective Date: 05-05-2004

Revision: 00

QLF ALGAECIDE, LF ALGAECIDE, PINK-X

Principal Use: Algaecide

Description: Colorless to light straw colored liquid with benzaldehyde odor

N. Jonas and Co., Inc.

4520 Adams Circle

P.O. Box 425

Bensalem, PA 19020-0425

Telephone: (215) 639-8071

Only in the Event of a Transportation Emergency Involving Spills, Leaks, Fires or Accidents, call CHEMTREC at (800) 424-9300.

2. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>%(w/w)</u>	<u>OSHA PEL</u>
Didecyl dimethyl ammonium chloride (CAS 7173-51-5)	50.0	Not Listed
Ethanol (CAS 64-17-5)	5 - 10	1,000 ppm

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications.

3. Hazards Identification

Emergency Overview

Appearance:

Colorless to straw colored liquid with benzaldehyde odor

Physical Hazards:

None

Health Hazards:

Corrosive to skin and eyes. Vapors or mists can irritate mucous membranes.

* Hazard summary defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200.

Potential Health Effects:

General:

This health hazard assessment based on information from commercial and scientific literature.

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.

Eye Contact:

Corrosive. Severe eye damage can result from direct contact.

Skin Contact:

Material Safety Data Sheet

Severe irritation. Corrosive.

Skin Absorption:

Components of this product may be absorbed through skin.

Inhalation:

Irritation of mucous membrane can be caused by solvent vapor or mists of product.

4. First Aid Measures:

First Aid - Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Have eyes examined and treated by medical personnel.

First Aid - Skin:

In case of contact, wash skin with plenty of soap and water. If irritation develops, consult medical personnel.

First Aid - Ingestion:

If swallowed, immediately 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. Probable mucosal damage may contraindicate the use of gastric lavage.

First Aid - Inhalation:

Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth.

5. Fire Fighting Measures

Flashpoint and Method:

Will not flash.

Autoignition Temperature:

Not applicable

Explosive Limits:

Not applicable

General Hazards:

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

Fire Fighting Instructions:

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Equipment:

Self-contained breathing apparatus with full facepiece and protective clothing.

Hazardous Combustion Products:

Hydrogen chloride fumes, oxides of carbon and nitrogen.

6. Accidental Release Measures

Spill Measures:

Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away

Material Safety Data Sheet

with water or absorbed on some absorbent material and incinerated. Large spills should be contained. The material should then be shoveled into containers in preparation for disposal

7. Handling and Storage

Handling:

Keep container tightly closed when not in use.

Storage:

Keep from freezing. Store in original container.

8. Exposure Controls/Personal Protection

Exposure Guidelines:

No ACGIH TLV or OSHA PEL assigned to this product. The ACGIH TLV and OSHA PEL for ethanol are 1,000 ppm. Minimize exposure in accordance with good hygiene practice.

Engineering Controls:

Use ventilation adequate to maintain safe levels. Provide eyewash station and safety shower in work area.

Respiratory Protection:

None required if good ventilation is maintained. For mist or vapor, wear NIOSH approved respirator.

Protective Clothing:

Impervious apron and rubber or neoprene gloves.

Eye Protection:

Splashproof safety goggles.

9. Chemical and Physical Properties

Appearance: Colorless to straw colored liquid with benzaldehyde odor

Boiling Point: No data

Vapor Pressure: No data

Vapor Density: Heavier than air

Solubility in Water: Soluble

pH: 6 - 8

Specif. Grav./Density: 0.91 - 0.94

% Volatile: >50

10. Stability and Reactivity

Stability:

Stable under normal conditions.

Incompatibility:

Strong oxidizers or reducing agents.

Hazardous Decomposition Products:

Hydrogen chloride fumes, oxides of carbon and nitrogen.

Hazardous Polymerization:

Material Safety Data Sheet

Will not occur.

11. Toxicological Information

Possible Human Health Effects:

Inhalation:

Inhalation of mucous membrane can be caused by solvent vapors or mists of product.

Skin Contact:

Severe irritation. Corrosive.

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.

Other Effects of Overexposure:

None known

Note to Physician:

Probable mucosal damage may contraindicate the use of gastric lavage.

12. Ecological Information

This product is completely soluble in water. Care should be taken to minimize release of undiluted product into the environment.

13. Disposal Consideration

Disposal Method:

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container Disposal:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, furnish, reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy container before disposal.

14. Transport Information

DOT Hazard Description:

Not regulated

15. Regulatory Information

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are listed on the TSCA Chemical Substances Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370, 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

California Proposition 65:

None

Material Safety Data Sheet

16. Other Information

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

HMIS and NFPA Ratings

<u>Hazard:</u>	<u>HMIS Ratings:</u>	<u>NFPA Ratings:</u>
<u>Health:</u>	3	3
<u>Flammability:</u>	2	2
<u>Reactivity:</u>	0	0

<u>HMIS and NFPA Hazard Rating Codes:</u>				
0 - Least	1 - Slight	2 - Moderate	3 - High	4 - Severe

NOTE: These HMIS and NFPA Ratings are for "new" product. See appropriate sections of this MSDS for specific hazard information and safe handling instructions.