

# Safety Data Sheet

## 1. Product and Company Identification

Effective Date: 08/21/2014  
Revision: 01

### Silver Algaecide

Principal Use: Algaecide  
Description: Dark brown liquid; Slight 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. Hazards Identification

### Emergency Overview

**Appearance:** Dark brown liquid.  
**Physical Hazards:** Irritating.  
**Health Hazards:** Excessive exposure may cause argyria.

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

### Potential Health Effects:

**General:** Contact physician or medical personnel if exposed.  
**Ingestion:** Harmful if swallowed.  
**Eye Contact:** Irritating to the eyes.  
**Skin Contact:** Excessive exposure can cause cosmetic discoloration (argyria). Wash well with water. Contact physician.  
**Skin Absorption:** Limit exposure on skin. As this product possibly may be absorbed through the skin, though this is not expected to be the primary route of exposure.  
**Inhalation:** May be irritating to mucous membranes.

## 3. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>%(w/w)</u>	<u>OSHA PEL</u>
Proprietary Blend		
CAS No.: 7761-88-8 or 7440-22-4	0.8	As Air Mist 8 hours 0.01 mg/m3

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

## 4. First Aid Measures:

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<b><u>First Aid - Eyes:</u></b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Have eyes examined and treated by medical personnel.
<b><u>First Aid - Skin:</u></b>	In case of contact, wash skin with plenty of soap and water. If irritation develops, consult medical personnel.
<b><u>First Aid - Ingestion:</u></b>	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
<b><u>First Aid - Inhalation:</u></b>	In case of contact, wash skin with plenty of soap and water. If irritation develops, consult medical personnel.

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## 5. Fire Fighting Measures

<b><u>Flashpoint and Method:</u></b>	> 212 degF PMCC
<b><u>Autoignition Temperature:</u></b>	Decomposes at 444 degC
<b>Flammable Limits:</b>	N/A
<b>General Hazards:</b>	When dried it may react with organic reducing agents to produce a flammable or explosive product.
<b>Firefighting Instructions:</b>	Use water to extinguish.
<b>Firefighting Equipment:</b>	Wear a self-contained breathing apparatus with full-face piece operated in the positive pressure demand mode.
<b>Haz Combustion Products:</b>	Emits NOx.

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## 6. Accidental Release Measures

<b>Spill Measures:</b>	Cleanup with absorbent material. Recover free material. Do not allow to enter sewers or waterways. Environmental hazard, contact EPA. Classified as heavy metal. Contact State and Federal Authorities for disposal of spilled product. Contact EPA for NPDES permit for disposal.
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## 7. Handling and Storage

<b>Handling:</b>	Wear appropriate skin, eye and respiratory protective clothing. Keep container closed when not in use. Do not
<b>Storage:</b>	Store in a cool, dry place. Keep container tightly closed. Do not store drums near organics or reducing agents.

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## 8. Exposure Controls/Personal Protection

<b><u>Exposure Guidelines:</u></b>	Follow ACGIH TLV or OSHA PEL assigned to products ingredients. Minimize exposure in accordance with good industrial hygiene practice. Avoid contact with food or food preparatory surfaces.
<b>Engineering Controls:</b>	Use ventilation adequate to maintain safe levels. Safety shower and eyebath should be provided. Do not eat, drink or smoke until showering and changing clothes. Do not store drums near organics or reducing agents.
<b>Respiratory Protection:</b>	Not needed for normal use.
<b>Protective Clothing:</b>	Elbow length neoprene gloves and rubber or plastic apron.
<b>Eye Protection:</b>	Goggles or face mask.

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## 9. Chemical and Physical Properties

<b>Appearance:</b>	Dark brown liquid.
<b>Boiling Point:</b>	212 deg F
<b>Vapor Pressure:</b>	18.5 mm Hg
<b>Vapor Density:</b>	< 1 (Air = 1)
<b>Solubility in Water:</b>	Dispersible.
<b>pH:</b>	6.7
<b>Specific Gravity - Density:</b>	Specific gravity: 1.011 (H2O X 1)
<b>% Volatile:</b>	97%

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## 10. Stability and Reactivity

<b>Stability Text:</b>	Stable
<b>Incompatibility:</b>	Avoid organics and reducing agents.
<b>Haz. Decomposition Products:</b>	Decomposes at 444 degC and emits NOx.
<b>Haz Polymerization Products:</b>	Will not occur.

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## 11. Toxicological Information

### Possible Human Health Effects:

<b>Inhalation Tox:</b>	There is no toxicological test data on this product.
<b>Skin Contact:</b>	There is no toxicological test data on this product.
<b>Eye Contact:</b>	There is no toxicological test data on this product.
<b>Ingestion Tox:</b>	There is no toxicological test data on this product.
<b>Other Effects of Overexposure:</b>	There is no toxicological test data on this product.
<b>Note to Physician:</b>	

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## 12. Ecological Information

<b>Ecological Info:</b>	Environmental hazard, contact EPA.
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## 13. Disposal Consideration

<b>Disposal Method:</b>	Classified as heavy metal. Contact State, Federal authorities for disposal.
<b>Container Disposal:</b>	Empty container retains product residue. Do not distribute, furnish, or 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.

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## 14. Transport Information

<b>DOT Hazard Description:</b>	Not regulated
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## 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):

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This product does not contain any chemicals subject to the reporting requirements under CERCLA.

**California Proposition 65:**

None

## 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>	1	1
<u>Flammability:</u>	0	0
<u>Reactivity:</u>	0	0

**HMIS and NFPA Hazard Rating Codes:**

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