

# MATERIAL SAFETY DATA SHEET

MSDS

## Sun Copper Algaecide

**Date-Issued:**03/27/2003  
**MSDS Ref. No:**ASUN23159  
**Date-Revised:**03/27/2003  
**Revision No:**New MSDS

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Sun Copper Algaecide  
**GENERAL USE:** Swimming pool algaecide.

#### MANUFACTURER

Asepsis, Inc.  
Sun  
P.O. Box 1788  
Suwanee, GA 30024-0973  
**Customer SERVICE:** (800)959-7946

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (Transportation)** (800) 424-9300  
**Poison Control Center (Medical)** (877)800-5553

**COMMENTS:** EPA Registration Number: 45309-28-10305

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Copper (metallic)	7440-50-8	7.1

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Blue-green liquid.

**IMMEDIATE CONCERNS:** CAUTION: Causes eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Remove and wash contaminated clothing.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Causes moderate, but temporary, eye irritation.

**SKIN:** May cause skin irritation. Avoid contact with skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** May be irritating to nose and throat. Avoid breathing vapors.

**CHRONIC:** There are no known chronic hazards.

**ROUTES OF ENTRY:** Eye Contact and Ingestion.

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### 4. FIRST AID MEASURES

**EYES:** If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

**SKIN:** If on skin: Wash with plenty of soap and water. If irritation develops, get medical attention.

**INGESTION:** If swallowed: Drink 1 or 2 glasses of water. Induce vomiting by placing fingers in back of throat and see a doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

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**5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** Not Applicable

**GENERAL HAZARD:** At 400 C product may emit toxic fumes of copper oxide and sulfur.

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Water

**FIRE FIGHTING PROCEDURES:** Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

**6. ACCIDENTAL RELEASE MEASURES**

**GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Utilizing appropriate clothing and safety equipment, contain spill material. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to local, state and federal regulations.

**7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

**HANDLING:** Do not mix with other chemicals.

**STORAGE:** Store in original containers and place in locked area. Do not reuse empty containers. Triple rinse empty container with water.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES:**

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

Copper (metallic)

TWA

**EXPOSURE LIMITS**

<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
		[1]			

**OSHA TABLE COMMENTS:**

- 1. N/A = Not Applicable

**ENGINEERING CONTROLS:** General room ventilation plus local exhaust should be used to minimize exposure to vapors.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYES AND FACE:** Wear goggles or safety glasses with side shields when handling this product.

**SKIN:** With repeated or prolonged use, wear gloves.

**RESPIRATORY:** None required.

**WORK HYGIENIC PRACTICES:** Remove and wash contaminated clothing before reuse.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Faintly acidic.

**COLOR:** Blue-green

**pH:** 7.0

**PERCENT VOLATILE:** 50% (by volume)

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established  
**BOILING POINT:** 100°C (212°F)  
**FREEZING POINT:** 0°C (32°F)  
**SOLUBILITY IN WATER:** Miscible in Water  
**SPECIFIC GRAVITY:** 1.3  
**VISCOSITY:** 15cps at 25°C

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## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** High temperature. Poor ventilation. Contamination.

**STABILITY:** This product is stable under normal conditions.

**POLYMERIZATION:** Hazardous polymerization will not occur under normal conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Vapors/fumes of organic/inorganic materials; oxides of carbon; copper oxide; sulfur.

**INCOMPATIBLE MATERIALS:** Other swimming pool/spa chemicals in their concentrated forms. Oxidizing compounds.

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Causes moderate, but temporary, eye irritation.

**SKIN EFFECTS:** May cause skin irritation.

### CARCINOGENICITY:

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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## 13. DISPOSAL CONSIDERATIONS

**EMPTY CONTAINER:** Do not reuse empty container. Triple rinse and incinerate or dispose of in an approved landfill or bury in a safe place in accordance with all federal, state and local regulations.

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## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive Liquids, N.O.S. (Contains copper sulfate)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** 1760

**PACKING GROUP:** III

**OTHER SHIPPING INFORMATION:** Limited Quantity

### CANADA TRANSPORT OF DANGEROUS GOODS

**PROPER SHIPPING NAME:** Corrosive Liquids, N.O.S. (Contains copper sulfate)

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## 15. REGULATORY INFORMATION

### UNITED STATES

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Cupric sulfate (CAS # 7758-98-7), a component of this product, has a CERCLA RQ of 10 lbs.

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** This product or its components are not subject to export notification.

**TSCA STATUS:** This product or its components are listed on the TSCA Inventory.

**OSHA HAZARD COMM. RULE:** Product is hazardous by definition of the Hazardous Communication Standard.

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This product is a registered pesticide.

## 16. OTHER INFORMATION

**PREPARED BY:** Regulatory Affairs Department

**REVISION SUMMARY** New MSDS

### HMIS RATING

<b>HEALTH:</b>		2
<b>FLAMMABILITY:</b>		0
<b>PHYSICAL HAZARD:</b>		0
<b>PERSONAL PROTECTION:</b>		B

### NFPA RATING

<b>HEALTH:</b>	2
<b>FIRE:</b>	0
<b>REACTIVITY:</b>	0

#### Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

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