

# Material Safety Data Sheet



## SeClear\* Algaecide and Water Quality Enhancer

### 1. Product and company identification

<b>Product name</b>	: SeClear* Algaecide and Water Quality Enhancer
<b>EPA Registration Number</b>	: 67690-LL
<b>Material uses</b>	: Aquatic algaecide and water quality enhancer.
<b>Supplier/Manufacturer</b>	: <b>SePRO Corporation</b> 11550 North Meridian Street Suite 600 Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-428-4577 Monday - Friday, 8am to 5pm E.S.T. <b>www.sepro.com</b>
<b>Responsible name</b>	: KMK Regulatory Services Inc.
<b>In case of emergency</b>	: <b>INFOTRAC - 24-hour service 1-800-535-5053</b>

### 2. Hazards identification

<b>Physical state</b>	: Liquid. [Clear.]
<b>Odor</b>	: None
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview</b>	: <b>CAUTION!</b> <b>MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.</b> May be harmful if swallowed. Slightly irritating to the eyes. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Wash thoroughly after handling.
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: May be harmful if swallowed.
<b>Skin</b>	: No known significant effects or critical hazards.
<b>Eyes</b>	: Slightly irritating to the eyes.
<b>Potential chronic health effects</b>	
<b>Chronic effects</b>	: Contains material that can cause target organ damage.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b>Target organs</b>	: Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin.
<b>Over-exposure signs/symptoms</b>	
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: No specific data.
<b>Eyes</b>	: Adverse symptoms may include the following: irritation watering redness
<b>Medical conditions aggravated by over-exposure</b>	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

\* indicates trademark of SePRO Corporation.

See toxicological information (Section 11)

### 3. Composition/information on ingredients

United States			
Name	CAS number	%	
<b>Active ingredient:</b>			
Copper sulfate	7758-99-8	16.2	
<b>Inert ingredient:</b>			
Proprietary Salt	---	---	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes.
- Inhalation** : Move exposed person to fresh air.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
sulfur oxides  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

- Personal precautions** : Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Water polluting material. May be harmful to the environment if released in large quantities. Hazardous to aquatic environment. May cause long-term adverse effects in the aquatic environment. Prevent leaking substances from running into the aquatic environment or the sewage system.
- Spill** : Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Protect from freezing. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

	<b>United States</b>
<b>Product name</b>	<b>Exposure limits</b>
Proprietary Salt	<b>NIOSH REL (United States, 6/2009).</b> TWA: 2 mg/m <sup>3</sup> , 10 hour(s). <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 2 mg/m <sup>3</sup> , 8 hour(s).

Consult local authorities for acceptable exposure limits.

**Applicators should refer to the product label for personal protective equipment.**

- Respiratory** : Not required under normal conditions of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used.
- Hands** : Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).
- Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. Physical and chemical properties

- Physical state** : Liquid. [Clear.]
- Color** : Blue. [Light]
- Odor** : None
- pH** : 2.7
- Boiling/condensation point** : Not available.
- Relative density** : 10.1 lbs/gal.
- Vapor pressure** : Not available.
- Solubility** : Not available.

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Copper sulfate	LD50 Dermal	Rat	>2 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-

**Chronic toxicity** : No known significant effects or critical hazards.

## 12. Ecological information

**Environmental effects** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water polluting material. May be harmful to the environment if released in large quantities.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Copper sulfate	Acute EC50 1.4 ug/L Fresh water	Crustaceans - Bosmina longirostris - Neonate	48 hours
	Acute IC50 0.8 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 >0.2 mg/L Fresh water	Aquatic plants - Spirodela polyrhiza	4 days
	Acute LC50 0.01 to 0.011 ng/ml Fresh water	Daphnia - Daphnia magna - Neonate - 0 to 24 hours	48 hours
Proprietary Salt	Acute LC50 0.057 ug/L Fresh water	Fish - Cirrhinus mrigala - 4.5 cm - 3 g	96 hours
	Acute EC50 6.57 to 7.76 mg/L Fresh water	Crustaceans - Asellus aquaticus - Adult - 7 mm - 1.5 mg	48 hours
	Acute IC50 3.2 mg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4.4 to 5.6 mg/L Fresh water	Fish - Pimephales promelas - 0.45 g	96 hours

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate). Marine pollutant (Copper sulfate)	9	III		- Limited Quantity Exemption
<b>IMDG Class</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate). Marine pollutant (Copper sulfate)	9	III		-
<b>IATA-DGR Class</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate)	9	III		-

PG\* : Packing group  
Exemption to the above classification may apply.

## 15 . Regulatory information

<b>HCS Classification</b>	: Target organ effects
<b>U.S. Federal regulations</b>	: <b>TSCA 8(a) IUR Exempt/Partial exemption:</b> Not determined <b>United States inventory (TSCA 8b):</b> All components are listed or exempted. <b>SARA 302/304/311/312 extremely hazardous substances:</b> No products were found. <b>SARA 302/304 emergency planning and notification:</b> No products were found. <b>SARA 302/304/311/312 hazardous chemicals:</b> Copper sulfate; Proprietary Salt <b>SARA 311/312 MSDS distribution - chemical inventory - hazard identification:</b> Copper sulfate: Immediate (acute) health hazard, Delayed (chronic) health hazard; Proprietary Salt: Immediate (acute) health hazard, Delayed (chronic) health hazard <b>Clean Water Act (CWA) 307:</b> Copper sulfate <b>Clean Water Act (CWA) 311:</b> Proprietary Salt <b>Clean Air Act (CAA) 112 accidental release prevention:</b> No products were found.
<b>Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)</b>	: Not listed
<b>Clean Air Act Section 602 Class I Substances</b>	: Not listed
<b>Clean Air Act Section 602 Class II Substances</b>	: Not listed
<b>DEA List I Chemicals (Precursor Chemicals)</b>	: Not listed
<b>DEA List II Chemicals (Essential Chemicals)</b>	: Not listed
<b>State regulations</b>	: <b>Connecticut Carcinogen Reporting:</b> None of the components are listed. <b>Connecticut Hazardous Material Survey:</b> None of the components are listed. <b>Florida substances:</b> None of the components are listed. <b>Illinois Chemical Safety Act:</b> None of the components are listed. <b>Illinois Toxic Substances Disclosure to Employee Act:</b> None of the components are listed. <b>Louisiana Reporting:</b> None of the components are listed. <b>Louisiana Spill:</b> None of the components are listed. <b>Massachusetts Spill:</b> None of the components are listed. <b>Massachusetts Substances:</b> The following components are listed: Proprietary Salt <b>Michigan Critical Material:</b> None of the components are listed. <b>Minnesota Hazardous Substances:</b> None of the components are listed. <b>New Jersey Hazardous Substances:</b> The following components are listed: Proprietary Salt; Copper sulfate <b>New Jersey Spill:</b> None of the components are listed. <b>New Jersey Toxic Catastrophe Prevention Act:</b> None of the components are listed. <b>New York Acutely Hazardous Substances:</b> The following components are listed: Proprietary Salt <b>New York Toxic Chemical Release Reporting:</b> None of the components are listed. <b>Pennsylvania RTK Hazardous Substances:</b> The following components are listed: Proprietary Salt; Copper sulfate <b>Rhode Island Hazardous Substances:</b> None of the components are listed.
<b>California Prop. 65</b>	No products were found.
<b>International regulations</b>	
<b>Chemical Weapons Convention List Schedule I Chemicals</b>	: Not listed
<b>Chemical Weapons Convention List Schedule II Chemicals</b>	: Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## 16. Other information

**Label requirements** : MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

**Hazardous Material Information System (U.S.A.)** :

Health	*	2
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



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**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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