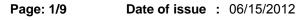
# **Material Safety Data Sheet**

# SeClear<sup>\*</sup> Algaecide

## 1. Product and company identification

Product name :	SeClear <sup>*</sup> Algaecide			
EPA Registration No. :	67690-55			
Material uses :	Aquatic algaecide.			
Supplier/Manufacturer :	SePRO Corporation 11550 North Meridian Street Suite 600 Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-580-8290 Monday - Friday, 8am to 5pm E.S.T. www.sepro.com			
Responsible name :	KMK Regulatory Services Inc.			
In case of emergency :	INFOTRAC - 24-hour service 1-800-535-5053			
2. Hazards identifica	ation			
Physical state :	Liquid. [Clear.]			
Color :	Blue. [Light]			
Odor :	None			
OSHA/HCS status :	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Emergency overview :	CAUTION!			
	MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.			
	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.			
Routes of entry :	Dermal contact. Eye contact. Inhalation. Ingestion.			
Potential acute health effects				
Inhalation :	No known significant effects or critical hazards.			
Ingestion :	Harmful if swallowed.			
Skin :	No known significant effects or critical hazards.			
Eyes :	Slightly irritating to the eyes.			
Potential chronic health effects				
Chronic effects :	Contains material that can cause target organ damage.			
Carcinogenicity :	No known significant effects or critical hazards.			
Mutagenicity :	No known significant effects or critical hazards.			





\* indicates trademark of SePRO Corporation.

06/15/2012

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### Material Safety Data Sheet SeClear\* Algaecide



### 2. Hazards identification

Teratogenicity :	No known significant effects or critical hazards.	
Developmental effects :	No known significant effects or critical hazards.	
Fertility effects :	No known significant effects or critical hazards.	
Target organs :	Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin.	
Over-exposure signs/symptoms		
Inhalation :	No specific data.	
Ingestion :	No specific data.	
Skin :	No specific data.	
Eyes :	Adverse symptoms may include the following: irritation watering redness	
Medical conditions aggravated by		
overexposure :	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.	

See toxicological information (Section 11)

### 3. Composition/information on ingredients

United States		
Component name	CAS #	% by wt.
Active ingredient: Copper sulfate Inert ingredient: Proprietary Salt	7758-99-8	16.2

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 :	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact :	In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation :	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
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. Get medical attention immediately.





### 4. First aid measures

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 meas	sures	
Flammability of the product :	No specific fire or explosion hazard.	
Extinguishing media		
Suitable :	Use an extinguishing agent suitable for the surrounding fire.	
Not suitable :	itable : None known.	
Special exposure hazards :	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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	Fire-fighters should wear appropriate protective equipment and self-contained	

breathing apparatus (SCBA) with a full face-piece operated in positive pressure

Special protective equipment for fire-fighters :

### 6. Accidental release measures

mode.

Personal precautions :	No action shall be taken involving any personal risk or without suitable training.
	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions :	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods for cleaning up	
Spill :	Stop leak if without risk. Move containers from spill area. Approach release from upwind. 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 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.







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

Exposure guidelines :	<b>Product name</b> Proprietary Salt	Exposure limits NIOSH REL (United States, 6/2009). TWA: 2 mg/m <sup>3</sup> , 10 hour(s). OSHA PEL 1989 (United States, 3/1989). TWA: 2 mg/m <sup>3</sup> , 8 hour(s).
Recommended monitoring procedures :	atmosphere or biol effectiveness of the	ains ingredients with exposure limits, personal, workplace ogical monitoring may be required to determine the eventilation or other control measures and/or the necessity rotective equipment.
Engineering measures :	sufficient to control contains ingredient	on requirements. Good general ventilation should be worker exposure to airborne contaminants. If this product s with exposure limits, use process enclosures, local exhaust engineering controls to keep worker exposure below any tatutory limits.
Hygiene measures :	before eating, smol period. Appropriate contaminated cloth	rms and face thoroughly after handling chemical products, king and using the lavatory and at the end of the working e techniques should be used to remove potentially ing. Wash contaminated clothing before reusing. Ensure ns and safety showers are close to the workstation location.
Personal protection		
	Applicators shoul equipment.	d refer to the product label for personal protective
Respiratory :	approved standard selection must be b	d, air-purifying or supplied air respirator complying with an if a risk assessment indicates this is necessary. Respirator based on known or anticipated exposure levels, the hazards the safe working limits of the selected respirator.
Hands :	should be worn at a	impervious gloves complying with an approved standard all times when handling chemical products if a risk es this is necessary.





### 8. Exposure controls/personal protection

Eyes :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
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.
Environmental exposure controls :	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and chemical properties

Physical state :	Liquid. [Clear.]
Color :	Blue. [Light]
Odor :	None
рН :	2.7
Relative density :	10.1 lbs/gal.

### 10. Stability and reactivity

Chemical stability : Conditions to avoid :	The product is stable. No specific data.
Incompatible materials :	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.

### 11. Toxicological information

#### Acute toxicity :

Product/ingredient name	Result	Species	Dose
Copper sulfate	LD50 Oral	Rat	300 mg/kg

#### Chronic toxicity :

There is no data available.

#### Irritation/Corrosion :

Product/ingredient name	Result	Species	Score	Exposure
Proprietary Salt	Eyes - Severe irritant	Rabbit	-	24 hours 10 milligrams

### <u>Sensitizer :</u>

Skin :

There is no data available.





### 11. Toxicological information

Respiratory :	There is no data available.
Carcinogenicity :	There is no data available.
<u>Mutagenicity :</u>	There is no data available.
Teratogenicity :	There is no data available.
Reproductive toxicity :	There is no data available.

### 12. Ecological information

**Ecotoxicity :** 

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 - <i>Pseudokirchneriella subcapitata -</i> 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
	Acute LC50 0.057 ug/L Fresh water	Fish - Cirrhinus mrigala - 4.5 cm - 3 g	96 hours
Proprietary Salt	Acute LC50 0.410 mg/L Fresh water	Freshwater fish - Oncorhynchus mykiss	96 hours
	Acute LC50 23.8 mg/L Fresh water	Freshwater fish - Pimephales promelas	96 hours
	Acute IC50 26 mg/L Fresh water	Daphnid - Daphnia magna	48 hours
	Acute IC50 29.8 mg/L Fresh water	Daphnid - Ceriodaphnia dubia	48 hours

Persistence/degradability:

There is no data available.

### 13. Disposal considerations

Waste disposal :

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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
DOT Classification	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate). Marine pollutant (Copper sulfate)	9	111		- Limited Quantity Exemption
IMDG Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate). Marine pollutant (Copper sulfate)	9	111		-
IATA-DGR Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate)	9			-
PG* : Packing group	Exer	nption to the above clas	sification may a	apply.		AERG : Not available.

## 15. Regulatory information

HCS Classification :	Target organ effects
U.S. Federal regulations :	TSCA 8(a) IUR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
	SARA 302/304/311/312 extremely hazardous substances: No products were found.
	SARA 302/304 emergency planning and notification: No products were found.
	SARA 302/304/311/312 hazardous chemicals: Copper sulfate; Proprietary Salt
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Copper sulfate: Immediate (acute) health hazard, Delayed (chronic) health hazard; Proprietary Salt: Immediate (acute) health hazard, Delayed (chronic) health hazard
	Clean Water Act (CWA) 307: Copper sulfate
(	Clean Water Act (CWA) 311: Proprietary Salt
Clean Air Act Section 112(b) Hazardous Air	Not listed

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Pollutants (HAPs) :





### 15. Regulatory information

Clean Air Act Section 602 Class I Substances :	Not listed
Clean Air Act Section 602 Class II Substances :	Not listed
DEA List I Chemicals (Precursor Chemicals) :	Not listed
DEA List II Chemicals (Essential Chemicals) :	Not listed

#### SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Copper sulfate	7758-99-8	10 - 30
Supplier notification	Copper sulfate	7758-99-8	10 - 30

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### State regulations

Massachusetts :	The following components are listed: Proprietary Salt
New York :	The following components are listed: Proprietary Salt
New Jersey :	The following components are listed: Proprietary Salt; Copper sulfate
Pennsylvania :	The following components are listed: Proprietary Salt; Copper sulfate
<u> California Prop. 65 :</u>	No products were found.

### 16. Other information

Label requirements :					Y CAUSE EYE IRRITA E TARGET ORGAN DAI	
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	Health :	2	Flammability :	0	Instability :	0
Association (U.S.A.) :			-		-	

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History





### 16. Other information

Date of issue mm/dd/yyyy :	06/15/2012
Date of previous issue :	09/15/2011
Version :	2
Revised Section(s) :	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

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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