SAFETY DATA SHEET



Section 1. Identification		
GHS product identifier	: SeClear [®]	
	Algaecide and Water Quality Enhancer®	
Other means of identification	: Not available.	
EPA Registration No. :	67690-55	
Relevant identified uses o	f the substance or mixture	
Aquatic algaecide.		
Supplier's details	: 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	
Emergency telephone number (with hours of operation)	: INFOTRAC - 24-hour service 1-800-535-5053	
	r exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. onsult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
GHS label elements	
Hazard pictograms	: Skull and crossbones, Environment
Signal word	: Danger
Hazard statements	: Toxic if inhaled. Harmful if swallowed. Causes skin and eye irritation. Toxic to aquatic life with long lasting effects.



Section 2. Hazards identification

Precautionary statements

Prevention	 Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid accidental release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Collect spillage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of	:	Not available.
identification		
CAS number/other identifiers		
CAS number	:	Not applicable.
Ingredient name		

Ingredient name	%	CAS number
Proprietary ingredient 2	40 - 60	-
Proprietary ingredient 1	30 - 40	-
Copper sulfate pentahydrate	16.2	7758-99-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention. 		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Skin contact	: Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.		

 $\mathbf{K}_{\mathbf{K}}^{\mathbf{M}}$



Section 4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>cts</u>		
Eye contact	: Causes serious eye irritation.		
Inhalation	: Toxic if inhaled.		
Skin contact	: Causes skin irritation.		
Ingestion	: Harmful if swallowed. Irritating to mouth, throat and stomach.		
<u>Over-exposure signs/symp</u>	<u>otoms</u>		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: Adverse symptoms may include the following: irritation redness		
Ingestion	: No known significant effects or critical hazards.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 		
Specific treatments	: No specific treatment.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.



Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: This material is toxic to aquatic life with long lasting effects. 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 actions for fire-fighters	: No special measures are required.
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.

.

(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 6. Accidental release measures

. ..

....

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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). May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	ntainment and 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

Section 1 for emergency contact information and Section 13 for waste disposal.
Section 7. Handling and storage

Precautions for safe handling

reconditions for sure numarity	4
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
Advice on general occupational hygiene	: 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. See also Section 8 for additional information on hygiene measures.

K₩



Section 7. Handling and storage

Conditions for safe storage,	:	Store in accordance with local regulations. Store in original container protected from
including any		direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
incompatibilities		(see Section 10) and food and drink. Store locked up. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
Proprietary ingredient 1	NIOSH REL (United States, 6/2009). TWA: 2 mg/m ³ 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 2 mg/m ³ 8 hours.	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local ex other engineering controls to keep worker exposure to airborne conta recommended or statutory limits.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be che they comply with the requirements of environmental protection legisla	
Individual protection measu	ires	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical p eating, smoking and using the lavatory and at the end of the working Appropriate techniques should be used to remove potentially contam Wash contaminated clothing before reusing. Ensure that eyewash s showers are close to the workstation location.	period. inated clothing.
Eye/face protection	: Safety eyewear complying with an approved standard should be used assessment indicates this is necessary to avoid exposure to liquid sp gases or dusts. If contact is possible, the following protection should the assessment indicates a higher degree of protection: chemical sp or face shield. If inhalation hazards exist, a full-face respirator may b	lashes, mists, be worn, unless lash goggles and/
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved s worn at all times when handling chemical products if a risk assessme necessary. Considering the parameters specified by the glove manu during use that the gloves are still retaining their protective properties noted that the time to breakthrough for any glove material may be dif glove manufacturers. In the case of mixtures, consisting of several s protection time of the gloves cannot be accurately estimated.	ent indicates this is facturer, check s. It should be ferent for different
Body protection	 Personal protective equipment for the body should be selected based performed and the risks involved and should be approved by a speci- handling this product. 	
Other skin protection	: Appropriate footwear and any additional skin protection measures sh based on the task being performed and the risks involved and should specialist before handling this product.	



Section 8. Exposure controls/personal protection

Respiratory protection

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid. [Clear.]
Color	:	Blue. [Light]
Odor	:	None.
Odor threshold	:	Not available.
рН	:	2.7
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not applicable.
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.2
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Kinematic (room temperature): 0.034 cm²/s (3.4 cSt)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.

K₩



Section 10. Stability and reactivity

Hazardous decomposition
products: Under normal conditions of storage and use, hazardous decomposition products should
not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SeClear®	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat	>2.06 mg/L >5000 mg/kg 1030 mg/kg	4 hours - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SeClear®	Skin - Primary dermal irritation index (PDII)	Rabbit	0.5	-	hours
	Eyes - Mildly irritating to the eyes.	Rabbit	22.7	-	-

<u>Sensitization</u>

Product/ingredient name	Route of exposure	Species	Result
SeClear®	skin	Guinea pig	Not sensitizing

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely	: Routes of entry anticipated: Oral, Dermal, Inhalation.
routes of exposure	

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Toxic if inhaled.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed. Irritating to mouth, throat and stomach.

K₩



Sepro

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics					
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness				
Inhalation	: No known significant effects or critical hazards.				
Skin contact	: Adverse symptoms may include the following: irritation redness				
Ingestion	: No known significant effects or critical hazards.				

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health effe	<u>ects</u>
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
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.

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
Proprietary ingredient 1	Acute EC50 6.57 mg/L Fresh water Acute IC50 3.2 mg/L Fresh water Acute LC50 0.41 mg/L Fresh water Chronic NOEC 4 µg/L Fresh water	Crustaceans - Asellus aquaticus - Adult Daphnia - Daphnia magna Fish - Oncorhynchus mykiss Fish - Salvelinus fontinalis - Eyed stage,	48 hours 48 hours 96 hours 30 days
Copper sulfate pentahydrate	Acute EC50 182 ppb Fresh water Acute LC50 32 µg/L Fresh water	eyed embryo Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours

Persistence and degradability

There is no data available.



Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Proprietary ingredient 1	-	362	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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.
------------------	---

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper Sulfate Pentahydrate). Marine pollutant (Copper Sulfate Pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate pentahydrate). Marine pollutant (Copper sulfate pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulfate pentahydrate)
Transport hazard class(es)	9	9	9
Packing group	Ш	III	III
Environmental hazards	Yes.	Yes.	Yes.
Additional information	- Limited Quantity Exemption	-	The environmentally hazardous substance mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

K₩

9/12



Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

Ŭ						
I.S. Federal regulations	: TSCA 8(a) CDR Exe	empt/Partial e	xemption: N	ot determir	ned	
	United States inver	ntory (TSCA 8	b) : All compo	onents are	listed or exemp	oted.
	Clean Water Act (C	WA) 307: Cop	per sulfate pe	entahydrate	e	
	Clean Water Act (C	WA) 311: Pro	orietary ingree	dient 1; Co	pper sulfate pe	ntahydrate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed					
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					
<u>SARA 302/304</u>						
Composition/information	on ingredients					
No products were found.						
SARA 304 RQ	: Not applicable.					
<u>SARA 311/312</u>						
Classification	: Immediate (acute) h	ealth hazard				
Composition/information	<u>on ingredients</u>					
Name	%	Fire Su	dden R	oactivo	Immediate	Delayed

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Proprietary ingredient 1		No.	No.	Yes.	Yes.	No.
Copper sulfate pentahydrate		No.	No.	No.	Yes.	No.

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	Copper Sulfate Pentahydrate	7758-99-8	16.2
Supplier notification	Copper Sulfate Pentahydrate	7758-99-8	16.2



Section 15. Regulatory information

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

State regulations	
Massachusetts	: The following components are listed: Proprietary ingredient 1
New York	: The following components are listed: Proprietary ingredient 1
New Jersey	 The following components are listed: Proprietary ingredient 1; Copper sulfate pentahydrate
Pennsylvania	 The following components are listed: Proprietary ingredient 1; Copper sulfate pentahydrate
<u>California Prop. 65</u>	
No products were found.	
International regulations	
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

Section 16. Other information

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 SDSs 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.)

Health: 2 Flammability: 0 Instability: 0

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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.



Section 16. Other information

<u>History</u>

Date of issue mm/dd/yyyy Date of previous issue Version	:	04/15/2015 03/15/2013 4
Revised Section(s)	:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Prepared by	:	KMK Regulatory Services Inc.
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

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.

KK