



SeClear® Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : SeClear®

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Algicide and water quality enhancer
Restrictions on use : Other

1.3. Supplier

SePRO Corporation
11550 North Meridian Street Suite 600
Carmel, IN USA
Tel: 317-580-8282
Toll free: 1-800-419-7779
Fax: 317-580-8290
Monday-Friday 8am - 5pm E.S.T.
www.sepro.com

1.4. Emergency telephone number

Emergency number : INFOTRAC 24 hour service 1-800-535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Acute toxicity (oral) Category 4 H302 Harmful if swallowed
Hazardous to the aquatic environment - Acute Hazard Category 1 H400 Very toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 2 H411 Toxic to aquatic life with long lasting effects
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS labeling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

H302 - Harmful if swallowed
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS) :

P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P330 - Rinse mouth.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS)

Not applicable

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS classification
Copper sulphate pentahydrate	(CAS-No.) 7758-99-8	16.38	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
inorganic salt	(CAS-No.) CAS Withheld as Trade Secret	16.38	Eye Dam. 1, H318

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures**4.1. Description of first aid measures**

- First-aid measures general : Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : May cause slight irritation.
- Symptoms/effects after eye contact : May cause slight irritation.
- Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Fire-fighting measures**5.1. Suitable (and unsuitable) extinguishing media**

- Suitable extinguishing media : Carbon dioxide. Dry chemical. Foam. Water fog.

5.2. Specific hazards arising from the chemical

- Fire hazard : Burning produces irritating, toxic and noxious fumes.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- General measures : Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Toxic to aquatic life with long lasting effects. Prevent runoff from entering drains, sewers or waterways.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Stop leak, if possible without risk. Prevent release to environment.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Stop leak, if possible without risk. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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6.2. Environmental precautions

Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Do not breathe mist, spray.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage.

Incompatible products : Reducing agents.

Incompatible materials : None known.

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SeClear®
No additional information available
Copper sulphate pentahydrate (7758-99-8)
No additional information available
inorganic salt (CAS Withheld as Trade Secret)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Prevent leakage or spillage.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear water impervious gloves. Nitrile rubber

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

None under normal use

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Blue. Clear liquid.
Color	: Blue
Odor	: odorless
Odor threshold	: No data available
pH	: 2.7
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable. Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.2
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 3.4 mm ² /s
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: weakly oxidising.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No dangerous reactions known.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Reducing agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

SeClear®	
LD50 oral rat	1030 mg/kg bw/day
LD50 dermal rat	> 5000 mg/kg

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SeClear®	
ATE (oral)	1030 mg/kg body weight
Copper sulphate pentahydrate (7758-99-8)	
LD50 oral rat	352 mg/kg
LD50 dermal rabbit	> 5050 mg/kg
ATE (oral)	352 mg/kg body weight
inorganic salt (CAS Withheld as Trade Secret)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 1167.5 mg/kg body weight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification. Slightly irritant but not relevant for classification) pH: 2.7
Serious eye damage/irritation	: Not classified (Conclusive but not sufficient for classification. Slightly irritant but not relevant for classification) pH: 2.7
Respiratory or skin sensitization	: Not classified (Conclusive but not sufficient for classification. No sensitizing reaction was observed for guinea pigs)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

inorganic salt (CAS Withheld as Trade Secret)	
LOAEL (animal/male, F0/P)	27.371 mg/kg body weight Animal: other:rat and mouse, Animal sex: male, Guideline: EPA OTS 798.4700 (Reproduction and Fertility Effects), Remarks on results: other:Generation: Effects on spermatogenesis, testis, epididymis, in the ductus deferens, interstitium (migrated information)
NOAEL (animal/female, F0/P)	310 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test), Remarks on results: other:Generation: F3 (migrated information)
NOAEL (animal/female, F1)	310 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)

STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: 3.4 mm ² /s
Likely routes of exposure	: Dermal.
Symptoms/effects after skin contact	: May cause slight irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Copper sulphate pentahydrate (7758-99-8)	
LC50 fish 1	0.65 ppm 96 h blugill
LC50 other aquatic organisms 1	17 ppm 48 h pink shrimp
EC50 crustacea	0.6 ppm 48 h
EC50 other aquatic organisms 1	0.054 ppm 48 h eastern oysters
LC50 fish 2	0.056 ppm 96 h trout
inorganic salt (CAS Withheld as Trade Secret)	
LC50 fish 1	214.6 mg/l Test organisms (species): Pimephales promelas

inorganic salt (CAS Withheld as Trade Secret)	
EC50 crustacea	> 100 mg/l Test organisms (species): Daphnia magna
LC50 fish 2	228.5 mg/l Test organisms (species): Pimephales promelas
LOEC (chronic)	27 mg/l Test organisms (species): Daphnia magna Duration: '28 d'
NOEC (chronic)	12 mg/l Test organisms (species): Daphnia magna Duration: '28 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

SeClear®	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Effect on global warming : None known

SECTION 13: Disposal considerations

13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into public or municipal sewer.
 Waste disposal recommendations : Avoid release to the environment. Dispose of this material and its container at hazardous or special waste collection point.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT:

HazMat Labeling: Class 9 label (all bulk packages).

Marine Pollutant mark: (non-bulk packages (<119 gal): not required on road, rail or air)

Marine Pollutant mark: (bulk packages (>119 gal) required for road, rail or air unless the transport vehicle is already placarded)

Transport document description (Bulk) : RQ, UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper sulphate pentahydrate), 9, III
 UN-No.(DOT) : UN3082
 Proper Shipping Name (DOT) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Copper sulphate pentahydrate
 Transport hazard class(es) (DOT) Packing : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
 group (DOT) : III - Minor Danger
 Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Dangerous for the environment Marine pollutant : Yes
 : Yes



SECTION 15: Regulatory information**15.1. US Federal regulations****SeClear®**

RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb Copper sulphate pentahydrate
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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Copper sulphate pentahydrate	CAS-No. 7758-99-8	16.38%
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Copper sulphate pentahydrate (7758-99-8)

CERCLA RQ	10 lb
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inorganic salt (CAS Withheld as Trade Secret)

CERCLA RQ	5000 lb
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15.2. International regulations**CANADA****Copper sulphate pentahydrate (7758-99-8)**

Listed on the Canadian DSL (Domestic Substances List)

inorganic salt (CAS Withheld as Trade Secret)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Copper sulphate pentahydrate(7758-99-8)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List
inorganic salt(CAS Withheld as Trade Secret)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Revision date : 01/15/2020
 Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.
 European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>.
 Internal Company test data.

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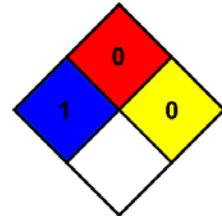
Full text of H-phrases:

H302	Harmful if swallowed
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

CLP: Classification, Labelling, Packaging.
CAS (Chemical Abstracts Service) number
ATE: Acute Toxicity Estimate
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals)
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

- NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



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Indication of changes:

Section	Changed item	Change	Comments
		Modified	Sections 1 - 13 to reclassify and select phrases and provide data consistent with the new classification
2	Hazard statements (GHS)	Modified	
2	Precautionary statements (GHS)	Modified	
2.2	Hazard pictograms (GHS)	Added	
15	Regional legislation	Modified	Regulatory information
16	NFPA health hazard	Modified	Changed from 2 to 1 based on reclassification.

SDS US (GHS HazCom 2012)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.