

1. Identification

Common Name/ Trade Name:	COPPERSAFE ®	Revision Date:	April 22, 2019
Material Uses:	Aquarium product, anti-parasitic	Product Number:	N/A
Supplier:	FRITZ INDUSTRIES, INC. 500 N. SAM HOUSTON ROAD MESQUITE, TX 75149	In Case of Emergency:	
		Week Days: (Monday – Friday 8-5): (972) 329-8800 (800) 955-1323	CHEMTREC (7 days a week, 24 hours a day) (800) 424-9300

2. Hazard(s) Identification

Classification:	Not classified under GHS.		
Labeling:	Symbol:	Symbol not required.	
	Signal Word:	Signal word not required.	
	Hazard Statement:	Not a hazardous substance or mixture.	
	Precautionary Statements:	P102 Keep out of reach of children. P103 Read label before use. P264 Wash thoroughly after handling. P281 Use personal protective equipment as required.	
Other Hazard Information:	Physical/Chemical Hazards:	No additional hazards.	
	Health Hazards:	May cause gastrointestinal irritation if large quantities are ingested.	
	Environmental Hazards:	No additional hazards.	

3. Composition and Information on Ingredients

Chemical Identity	Numbers of Identity	% by Weight
Chelated Copper Sulfate	CAS# 7758-99-8	2 - 3

4. First Aid Measures

Inhalation:	Exposure through inhalation not probable, but if inhaled, remove from area to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Skin Contact:	In case of contact, remove contaminated clothing. Wash contact areas thoroughly with soap and water. Launder contaminated clothing before reuse. If irritation develops and persists, seek medical attention.
Eye Contact:	In case of contact, do not rub eyes. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation develops and persists, seek medical attention.
Ingestion:	If ingested, remove material from mouth and rinse with water. If victim is conscious and alert, give water to dilute. Do not induce vomiting, unless directed by medical personnel. If symptoms persist, seek medical attention.

5. Fire and Explosion Data

General Information:	This material is not considered flammable or combustible.
Suitable Extinguishing Media:	Use any means suitable for extinguishing surrounding fire.
Unsuitable Extinguishing Media:	None known.
Specific Hazards in Case of Fire:	Thermal decomposition may release oxides of sulfur, oxides of nitrogen, oxides of carbon, oxides of phosphorus, and phosphine.
Special Protective Equipment and Precaution for Fire Fighters:	Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

6. Accidental Release Measures

Personal Precautions:	Avoid contact with material. Use proper personal protective equipment, see section 8. Spilled material may cause a slipping hazard.
Environmental Precautions:	Prevent release to sewers, waterways, and soil.
Methods and Materials for Containment and Cleaning Up:	Ventilate area. Isolate and contain spill. Recover material with an inert absorbent and place into an appropriate container for disposal. Wash down area with water.

7. Handling and Storage

Precautions for Safe Handling:	For aquarium use only. Use proper personal protective equipment, see section 8. Avoid contact with material. Wash thoroughly after handling.
Conditions for Safe Storage, including Incompatibilities:	Keep container tightly closed. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area. Store away from oxidizers, acids, and metals. See section 10 for list of incompatibles.

8. Exposure Controls/Personal Protection**Exposure Limits:**

Component Name (CAS-No.)	Reference	Limit Values
Copper Sulfate CAS# 7758-99-8	ACGIH (TWA)	1 mg/m ³ (mist, as copper)
	NIOSH (REL)	1 mg/m ³ (mist, as copper)
	OSHA (PEL)	1 mg/m ³ (mist, as copper)

Ventilation:	Use with adequate ventilation.
Respiratory Protection:	Not necessary, but if ventilation is inadequate, use a MSHA/NIOSH approved respirator that meets with OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements.
Eye Protection:	Safety glasses with side-shields or splash goggles.
Skin Protection:	Chemical resistant gloves.

9. Physical and Chemical Properties

Flashpoint:	Not determined	Lower Flammability Limit:	Not determined
Auto ignition Temperature:	Not determined	Upper Flammability Limit:	Not determined
Boiling Point:	214°F	Specific Gravity:	1.14 – 1.16
Melting Point:	Not determined	% Volatile:	Not determined
Vapor Pressure, mmHg:	Not determined	Evaporation Rate (Water=1):	Not determined
Vapor Density (air=1):	Not determined	Viscosity:	Not determined
%Solubility in Water:	Soluble	Octanol/Water Partition Coefficient:	Not determined
Pour Point:	Not determined	pH:	7.2 – 7.8
Odor/Appearance:	Slight chemical odor/Blue translucent liquid		

10. Stability and Reactivity Data

Chemical Stability:	Product is stable under recommended conditions of use and storage.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Direct sunlight, extreme heat and cold.
Materials to Avoid:	Oxidizers, reducing agents, acids, strong bases, and metals.
Hazardous Decomposition Products:	Thermal decomposition may release oxides of sulfur, oxides of nitrogen, oxides of carbon, oxides of phosphorus, and phosphine.

11. Toxicological Information

Routes of Exposure:	Eye contact, skin contact, and ingestion.
Acute Toxicity:	Oral LD ₅₀ : No data available. Dermal LD ₅₀ : No data available. Inhalation LC ₅₀ : No data available.
Skin Corrosion/Irritation:	No data available.
Serious Eye Damage/Irritation:	No data available.
Respiratory/Skin Sensitization:	No data available.
Germ cell Mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive Toxicity:	No data available.
STOT, SE:	No data available.
STOT, RE:	No data available.
Other Chronic Toxicity:	No known effects from chronic exposure.

12. Ecological Information

Persistence and Degradability:	No data available.
Bio-accumulative Potential:	No data available.
Mobility:	No data available.
Aquatic Toxicity:	

Test	Results	Comments
Toxicity	No data available	

13. Disposal Considerations

Waste Disposal:	Dispose material according to local, state, and federal regulations.
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14. Transport Information

US DOT:	Not Regulated
IATA:	Not Regulated
IMDG:	Not Regulated

15. Other Regulatory Information

Inventory Status:	Components are listed in TSCA inventory or are excepted.
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US Regulations:

SARA 302 EHS Chemicals:	This material does not contain any SARA extremely hazardous substances.
SARA (311/312) Hazard Categories:	No hazards listed.
SARA 313:	This material is subject to reporting requirements under SARA 313, listed as "Copper compounds, n.o.s."
EPA CERCLA/Superfund Reportable Spill Quantity:	This material does not contain any CERCLA regulated chemicals.
California Proposition 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information**Abbreviations and Acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Service
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
 EHS: Extremely Hazardous Substances
 EPA: Environmental Protection Agency
 GHS: Globally Harmonized System
 HMIS: Hazardous Materials Identification System
 IATA: International Air Transport Association
 IMDG: International Maritime Dangerous Goods
 LC₅₀: Lethal Concentration, half maximal
 LD₅₀: Lethal Dose, half maximal
 mg/m³: Milligrams per Cubic Meter
 NFPA: National Fire Protection Association
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible Exposure Limit
 PPE: Personal Protective Equipment
 REL: Recommended Exposure Limit
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short-term exposure limit
 STOT, RE: Specific Target Organ Toxicity, Repeated Exposure
 STOT, SE: Specific Target Organ Toxicity, Single Exposure
 TSCA: Toxic Substances Control Act
 TWA: Time weighted average

Additional Information:

HMIS (U.S.A.): Health 1, Flammability 0, Reactivity 0, Protective Equipment b
 NFPA (U.S.A.): Health 1, Flammability 0, Reactivity 0

Revisions:

Reviewed SDS, updated sections 11 and 15. (04/22/2019)

Supersedes:

October 21, 2014

Prepared by: Michael Carlo

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End of SDS