

**1. Identification**

Common Name/  
Trade Name: **COPPERSAFE®**  
Material Uses: Aquarium product, anti-parasitic

Revision Date: October 21, 2014

Product Number : N/A

Supplier: FRITZ INDUSTRIES, INC.  
500 N. SAM HOUSTON ROAD  
MESQUITE, TX 75149

**In Case of Emergency:**  
Week Days: CHEMTREC  
(Monday – Friday 8-5): (7 days a week, 24 hours a day)  
(972) 285-5471 (800) 424-9300  
(800) 955-1323

**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

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**

Chelated Copper Sulfate

**Numbers of Identity**

CAS# 7758-99-8

**% by Weight**

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 nausea or gastrointestinal irritation develops, 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 carbon, and oxides of nitrogen.

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**

<b>Personal precautions:</b>	Avoid contact with material. Use proper personal protective equipment, see section 8. Spilled material may cause a slipping hazard.
<b>Environmental precautions:</b>	Prevent release to sewers, waterways, and soil.
<b>Methods and materials for containment and cleaning up:</b>	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**

<b>Precautions for safe handling:</b>	For aquarium use only. Use proper personal protective equipment, see section 8. Avoid contact with material. Wash thoroughly after handling.
<b>Conditions for safe storage, including incompatibilities:</b>	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****Information on the system design:**

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

<b>Ventilation:</b>	Use with adequate ventilation.
<b>Respiratory protection:</b>	Not necessary, but if user generates mist, use a respirator approved for mist.
<b>Eye protection:</b>	Safety glasses with side-shields or splash goggles
<b>Skin protection:</b>	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:	<b>214°F</b>	Specific Gravity:	<b>1.14 – 1.16</b>
Melting Point:	Not determined	% Volatile:	Not determined
Vapor Pressure, mm <sub>Hg</sub> :	Not determined	Evaporation Rate (Water=1):	Not determined
Vapor Density (air=1):	Not determined	Viscosity:	Not determined
%Solubility in Water:	<b>Soluble</b>	Octanol/Water Partition Coefficient:	Not determined
Pour Point:	Not determined	pH:	<b>7.2 – 7.8</b>
Odor/Appearance:	<b>Slight chemical odor/Blue translucent liquid</b>		

**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, acids, and metals.
Hazardous Decomposition Products:	Thermal decomposition may release oxides of sulfur, oxides of carbon, and oxides of nitrogen.

**11. Toxicological Information**

Routes of Exposure:	Eye contact, skin contact, and ingestion.
Acute Toxicity:	No data available.
Subchronic/Chronic Toxicity:	No known effects from chronic exposure.

**12. Ecological Information**

<b>Persistence and degradability:</b>	No data available.
<b>Bio-accumulative potential:</b>	No data available.
<b>Mobility:</b>	No data available.
<b>Aquatic Toxicity:</b>	

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**

<b>US DOT Classification:</b>	Not Regulated
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**15. Other Regulatory Information**

Inventory Status:

Components are not listed in TSCA inventory.

**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.

**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  
 mg/m<sup>3</sup>: Milligrams per Cubic Meter  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute for Occupational Safety and Health  
 n.o.s.: Not Otherwise Specified  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible Exposure Limit  
 PPE: Personal Protective Equipment  
 REL: Recommended Exposure Limit  
 SARA: Superfund Amendments and Reauthorization Act  
 TSCA: Toxic Substances Control Act  
 TWA: Time weighted average

**Additional Information:**

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

**Prepared by: Michael Carlo****Preparation date: October 21, 2014**Disclaimer

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End of SDS