

Buy Cupric Sulfate Online At https://www.laballey.com/products/cupric-sulfate-anhydrous-powder-lab

SAFETY DATA SHEET

Creation Date 09-Apr-2010

Revision Date 23-Jan-2018

Revision Number 4

1. Identification			
Product Name	Copper(II) sulfate		
Cat No. :	C3391		
CAS-No Synonyms	7758-98-7 Cupric sulfate anhydrous; Cupric sulfate; Copper monosulfate		
Recommended Use Uses advised against Details of the supplier of the safety	Laboratory chemicals. Food, drug, pesticide or biocidal product use. <u>v data sheet</u>		
<u>Company</u> Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669			

Emergency Telephone Number InfoTrac: 800-535-5053

Tel.: 512-668-9918

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

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 advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Cupric sulfate	7758-98-7	98

	4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Inhalation	Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration.			
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.			
Most important symptoms and effects	No information available.			
Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Toxic fumes. Sulfur oxides. Copper oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 2	Flammability 0	Instability 1	Physical hazards N/A	
	6. Accidental rel	lease measures		
Personal Precautions	Use personal protective eq formation. Avoid contact wi		dequate ventilation. Avoid dust	
Environmental Precautions	Do not flush into surface water or sanitary sever system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.			

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage			
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.		

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cupric sulfate	TWA: 1 mg/m ³		IDLH: 100 mg/m ³	
	_		TWA: 1 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

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Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties				
Physical State	Powder Solid			
Appearance	Grey			
Odor	Odorless			
Odor Threshold	No information available			
pH	3.5-4.5			
Melting Point/Range	200 °C / 392 °F			
Boiling Point/Range	No information available			
Flash Point	No information available			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	Not applicable			
Specific Gravity	3.6			
Solubility	203 g/L (20°C)			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	Cu O4 S			
Molecular Weight	159.6			
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10. Stability and reactivity				

Reactive Hazard	None known, based on information available			
Stability Stable under normal conditions. Hygroscopic.				
Conditions to Avoid Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture				
Incompatible Materials Strong bases, Metals, Alkali metals, Finely powdered metals				
Hazardous Decomposition Products Toxic fumes, Sulfur oxides, Copper oxides				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			

Acute Toxicity

Product Information Component Information Component LD50 Oral LD50 Dermal LC50 Inhalation Cupric sulfate LD50 = 481 mg/kg (Rat) LD50 > 1000 mg/kg (Rabbit Not listed **Toxicologically Synergistic** No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Irritating to eyes and skin Sensitization No information available Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. CAS-No NTP ACGIH Component IARC OSHA Mexico Cupric sulfate 7758-98-7 Not listed Not listed Not listed Not listed Not listed **Mutagenic Effects** No information available **Reproductive Effects** No information available. **Developmental Effects** No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known No information available Aspiration hazard

Symptoms / effects, both acute and No information available delayed

Endocrine Disruptor Information No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea	
Cupric sulfate	Not listed		LC50: = 0.1 mg/L, 96h (Oncorhynchus mykiss)	Not listed	EC50 = 0.024 mg/L/48h	
Persistence and Degradability May persist			based on information availa	ble.	<u> </u>	
Bioaccumulation/ Accumulation No information available.						
Mobility Will likely be mobile in the environment due to its water solubility.						
	13. Disposal considerations					
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				local, regional, and		
14. Transport information						
<u>DOT</u> UN-No UN3077						

Proper Shipping Name Technical Name Hazard Class Packing Group TDG	Environmentally hazardous substances, solid, n.o.s. Cupric sulfate 9 III
<u>UN-No</u>	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IATA	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Cupric sulfate	7758-98-7	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Cupric sulfate	7758-98-7	Х	-	231-847-6	Х	Х	Х	Х	KE-08956

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Cupric sulfate	7758-98-7	98	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Cupric sulfate	X	10 lb	X	-

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs		
Cupric sulfate	10 lb	-		
California Proposition 65 This	This product does not contain any Proposition 65 chemicals.			

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cupric sulfate	Х	Х	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

16. Other information				
Prepared By	Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com			
Creation Date Revision Date Print Date Revision Summary	09-Apr-2010 23-Jan-2018 23-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS