

Safety Data Sheet

SECTION 1: Identification

Product Name	Copper Sulfate, 0.0100 Molar		
Product Code	CC200400		
Other Identifiers	Cupric Sulfate 0.01 Normal; Cupric Sulfate 0.01 Molar		
Recommended Uses	General Laboratory Reagent/Chemical.		
Uses Advised Against	Not intended for drug, food or household use.		
Address	3825 Parrott Drive Charlotte, NC 28214 USA	24-Hour Emergency Telephone	
Email	orders@reagents.com	CHEMTREC (USA) 800-424-9300	
Fax	1-888-843-4384	CHEMTREC (International) 1 + 730-527-3887	
Telephone	1-800-732-8484		
Website	www.reagents.com		

SECTION 2: Hazard(s) Identification

This product is not categorized as hazardous in any GHS hazard class.

Hazards not otherwise classified or covered by GHS

None identified.

Hazard Statements

This product is not categorized as hazardous in any GHS class.

SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Copper(II) Sulfate Pentahydrate	7758-99-8	231-847-6	0.25
Water	7732-18-5	231-791-2	Remainder

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SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Rinse affected areas with plenty of water. If skin irritation develops, seek medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If irritation persists, seek medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored, seek medical attention.
Ingestion	Rinse mouth. Seek medical attention if feeling unwell.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam).
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	As with any chemical involved in a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures

Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
Containment and Clean Up	Contain and absorb with inert absorbent material or vacuum up spillage; collect in suitable lidded container for disposal.

Section 7: Handling and Storage

Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling chemical substances. As a general practice, wear gloves and eye protection when handling chemical substances.
Storage	Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
Exposure Limits	Copper compound (as Cu) REL-TWA 1 mg/m ³ US-NIOSH
Eye Protection	As part of good industrial hygiene, wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
Skin Protection	As a general practice, wear chemical resistant gloves when handling chemical substances.
Respiratory Protection	In general, special respiratory protection is not required and normal ventilation is expected to be adequate for safe handling under normal conditions of use.

Section 9: Physical and Chemical Properties

Physical State	Liquid
Appearance/Color	Blue
Odor	Odorless
Odor Threshold	Not applicable.
Melting/Freezing Point	0°C
Boiling Point/Range	100°C
Flammability	Not flammable
Flammable/Explosive Limits	Not applicable
Flash Point	Not applicable
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	Data not available
pH	Data not available
Viscosity	Data not available

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Solubility (in water)	Miscible
Partition Coefficient (n-octanol/water)	Data not available
Relative Density	1.002
Vapor Pressure	Data not available
Vapor Density	Data not available
Evaporation Rate	Data not available
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	Based on available data, no reaction hazards have been identified.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Hydrazine, nitromethane.
Hazardous Decomposition	Thermal decomposition can produce copper oxides, sulfur oxides.

Section 11: Toxicological Information

Acute Toxicity - Oral	ATE: > 10,000 mg/kg
Acute Toxicity - Dermal	ATE: > 20,000 mg/kg
Acute Toxicity - Inhalation	The toxicological data is limited or unavailable.
Skin Corrosion/Irritation	This material is not expected to cause skin irritation under normal conditions.
Eye Damage/Irritation	This material is not expected to cause eye damage or irritation under normal usage conditions.
Respiratory Sensitization	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	None known.
STOT Repeated Exposure	None known.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.

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Section 12: Ecological Information

Toxicity Values	ATE: > 100 mg/L
Persistence/Biodegradability	The methods for determining biological degradability do not apply to inorganic substances.
Bioaccumulation Potential	Not expected to bioaccumulate.
Mobility in Soil	Data is not available for this mixture of substances.
Other Adverse Effects	None known.

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

Proper Shipping Name, Hazard Class	NOT REGULATED.
Marine Pollutant	Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA	All components are on or in compliance with the inventory.
USA SARA 302/304	M0000075
USA SARA 311/312	Cupric Sulfate
USA SARA 313 (TRI)	M0000075
Canada DSL/NDL	All components are on or in compliance with DSL.
California Proposition 65	This product contains no substances on the list.

Section 16: Other Information

Acronyms	ACGIH	American Conference of Governmental Industrial Hygienists (USA)
	ATE	Acute Toxicity Estimate (calculated toxicity value)
	BCF	Bioconcentration Factor
	CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
	DOT	Department of Transportation (USA)
	DSL	Domestic Substances List (Canada)
	EHS	Extremely Hazardous Substance
	EPA	Environmental Protection Agency (United States)
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	IDLH	Immediately Dangerous to Life and Health
	NTP	National Toxicology Program (USA)
	OSHA	Occupational Safety and Health Administration (USA)
	PEL	Permissible Exposure Limit
	PNOR	Particulates Not Otherwise Classified
	PPE	Personal Protective Equipment
	ppb	Parts per billion
	ppm	Parts per million
	RQ	Reportable Quantity
	SARA	Superfund Amendments and Reauthorization Act (USA)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity
	TRI	Toxic Release Inventory (USA)
	TSCA	Toxic Substances Control Act (USA)
	TWA	Time Weighted Average
	UN	United Nations

Revision Date 03/10/22

Issue Date: 3/10/2022

The information contained herein is believed to be accurate and represents the best data currently available to Reagents but does not purport to be all inclusive. This document is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Reagents makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Reagents will not be responsible for damages resulting from use of or reliance upon this information.