

MATERIAL SAFETY DATA SHEET

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C8800, C8608
 8150-04
 MSDS No. 517788
 Effective Date

24 HOUR EMERGENCY ASSISTANCE

Product	Cupric Sulfate, Pentahydrate	HEALTH	2
Chemical Synonyms	Copper Sulfate, Blue Vitriol	FLAMMABILITY	0
Formula	CuSO ₄ ·5H ₂ O	REACTIVITY	0
RTECS #	GL8900000	HAZARD RATING	
C.A.S. No.	7789-89-8	LEAST	0
		SLIGHT	1
		MODERATE	2
		SEVERE	3
		EXTREME	4

SECTION I NAME

Product	Cupric Sulfate, Pentahydrate
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Formula	CuSO ₄ ·5H ₂ O
RTECS #	GL8900000
C.A.S. No.	7789-89-8

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
NA = Not Applicable		
NE = None Established		

SECTION III PHYSICAL DATA

Melting Point (°F)	110°C (lose water)	Specific Gravity (l/l = 1)	2.28
Boiling Point (°F)	>400°C (decompose)	Percent Volatile by Volume (%)	NA
Vapor Pressure (mm Hg)	NA	Evaporation Rate	NA
Vapor Density (Air = 1)	NA		
Solubility in Water	24.3% @ 30°C		
Appearance and Odor	Blue crystals/powder, no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	NA	Flammable Limits in Air (% by Volume)	Lower	Upper
Extinguisher Media	Use any medium suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

In the event of 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.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not considered to be a fire/explosion hazard.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value 1 mg/m³ (as Cu) TWA

Effects of Overexposure

Toxic: Acute: Irritation and pain to skin, eyes, lungs, mucous membranes, and GI tract. Coughing, itching, headache, chills. Chronic: Dermatitis, systemic metal poisoning hazard, nasal damage.

Skin: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Eyes: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call physician immediately.

SECTION VI REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid	None
Incompatibility (Materials to avoid)	Hydroxylamine, Magnesium.			
Hazardous Decomposition Products	Cupric oxide, Sulfur oxides.			
Hazardous Polymerization	Conditions to Avoid			
May Occur	Will Not Occur	X	None	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Ventilate area of leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Sweep up and contain for reclamation or disposal. Avoid dust dispersal.

Waste Disposal Method

Whatever cannot be saved for reclamation may be disposed of in a RCRA approved hazardous waste facility. Do not flush to the sewer. Toxic to aquatic life. Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Dust
Ventilation	Local Exhaust <input checked="" type="checkbox"/> Mechanical (General) <input checked="" type="checkbox"/> Special <input type="checkbox"/> Other <input type="checkbox"/>
Protective Gloves	Poly or Rubber
Other Protective Equipment	Lab Coat
Eye Protection	Goggles

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Store in a cool dry location. Read label on container before using. Keep container tightly closed when not in use.

Other Precautions: Conditions Aggravated/Target Organs: Persons with preexisting skin, heart, respiratory, or kidney/liver disorders or Wilson's disease may be more susceptible.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. 4 Date 5/17/88 Approved K. Kuchel Chemical Safety Coordinator RUC

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness.

D.O.T. Cupric Sulfate CRM-E NAB109

8 recovered by 115 Department of Labor "essentially similar" to firm NSH46-20