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### IMPORTANT MATERIAL SAFETY DATA SHEET

Product No. SB 14929 M READ CAREFULLY BEFORE USING CHEMICAL OSHA requires that this form be kept on file.

Product Name CUPRIC SULFATE,

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Chemical Synonyms	-4	in the
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#### Formula Cu So<sub>4</sub>-5H<sub>2</sub>O

Cupric Sulfate, Pentahydrate (7758-99-8) PENTAHYDRATE CRYSTALS Copper 25.2%\* SECTION IT HALLS IN DEPOSIT MANAGEMENT O

99	%	11年人之上,日日	A.S. No.
1 ma(Cu)m <sup>3</sup>	P.E.L.		7758-99-8
1.48 mg/Lair	TLV Units	ガー・	

Not determined.	Percent Volatile	-5 H <sub>2</sub> O at 150°C	ling Point (°F)
2.284	Specific Gravity (H <sub>2</sub> 0=1) 2.284	-4 H <sub>2</sub> O at 110°C	lling Point (°F)
		のでは、	CTION II
		terrical subject to the reporting requirements of SARA Title III	emical subject to the reportin

Boil Mei

Not determined.

Vapor Pressure (mm Hg) 7.3 mg at 25°C	7.3 mg at 25°C	Evaporation Rate =1)	) Not determin
Vapor Density (Air=1) Not determined	Not determined		
Solubility in Water	22.37% at 0°C 117.95 at 100°C	00°C	
Appearance & Odor	Blue Crystals or powder, no odor.	odor.	
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SECTIONAY	を できる	(A) (A)	
Flash Point	N/A Flammable Limits in Air	Lower	Upper
(Method Used)	% by Volume	N/A	N/A
Extinguisher	Copper sulfate does not burn, nor will it support combustion. If stored with other combustic products, use water, CO <sub>2</sub> or dry chemical.	f stored with oth	er combustib

Special Firefighting Procedures

CuSO<sub>4\*</sub>5H<sub>2</sub>O, and care should be used to keep such water out of streams or other water bodies If dry heated above 600°C, SO<sub>2</sub> is evolved. If water is used, it will solubilize the

Unusual Fire and Explosion Hazards

None

DEC 071995

D.O.T. | Not Regulated

Approved by U.S. Denartment of I shor "escentially similar" to form DSHA\_20

Health Hazard 2 Flammability 0 1.48 mg/liter air

Sanna Willer Ministerin

Ingestion: Copper sulfate may induce severe gastroenteric distress (vomiting, gastroenteric pain, and local corrosion and hemorrhages). Prostration, anuria, hematuria, anemia, increase in white blood cells coma, respiratory difficulties and circulatory failure. Eye: Corrosive to eye tissue. Chronic overexpost. Copper sulfate is reported to have a systemic effect in humans which effects the metabolic and excretion. Effects of Overexposure

### **Emergency and First Aid Procedures**

unction of the liver and kidney.

Eyes: Irrigate eyes with large amounts of water for at least 15 minutes. Hold eyelids apart during irrigates and patient to a physician immediately. Skin: Wash or shower thoroughly with water. Hemove and water contaminated clothes before reuse. Inhalation: Hemove worker from exposure and seek medical aid ingestion: If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. If the provided in the control contr not induce vomiting or give anything by mouth to an unconscious person

SECTION VII	May Occur Cocur Occur Mill Not None known.	Hazardous Decomposition Products	incompatibility (Materials to Avoid)	Stable 3 Unstable None known.
SPILL OR LEAK SACCEDURES	None known.	None at normal process temperatures and pressures. If dry heated above Decomposition Products  None at normal process temperatures and pressures. If dry heated above 1100°F (600°C) sulfur dioxide (SO <sub>2</sub> ) may be released.	None known when product remains dry. Product readily dissolves in water. Solutions are corros mid steet. Store solutions in plastic, rubber, 304. 347, or 316 stainless steet	Stability Conditions to Avoid  Stable 3 Unstable None known.

Steps to be Taken in Case Material is Released or Spilled

Contact appropriate, local, State, or Federal pollution control officials if warranted and especially if spille into public waters. If spill is confined to the use site, neutralize with lime or soda ash and use absorbent emove to approved landfill.

Waste Disposal Method

Discharge, Instiment, or disposed may be subject to Federal, State or Local laws. These disposed guidelines are intended for the disposed of catalog-size qua Sweep up crystal or powdered product and dispose in an approved landful. If product is in confined solution, introduce time or socia ash insoluble copper salls and then dispose in an approved landful. Reportable Quantity of a spit is 10 lbs/4.54 kg.

# SECTION VIII SPECIAL PROTECTION INFORMATION

Protective Gloves Rubber	Mechanical	Vonillation ( Local I	(Specify Type)
ber Eve Protection	nicat (General) X	Exhaus(3)	NIOSH approve dust mask.
etion	Other	Special	
Chemical Goggles	*****	01400	

Precautions to be Taken in Handling & Storing Equipment. SECTION IX Long sleeve protective clothing and lab apron SPECIAL PRECAUTIONS

Store product in a dry place

Other Proceditions

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The Information contained therein is furnished without warranty of	Approved by Steven C. Quandt	
y of any kind. Employers should use this information only as	Effective Date	
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upplement to other information gathered by them a	For laboratory use only. Not for dr household use. Keep out of reach	