Product Name Manufacturer	Material Safety Data Sheet oduct and Company Identification Cupric Sulfate, Pentahydrate, Crystals, Technical EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. EM Industries, Inc. or EM Science, Division of		CX220 Effective Date	0 3/3/2003
EM Industries, Inc. or EM Science, Division EM Industries, Inc. For More Information Call 856–423–6300 Technical Service Monday–Friday: 8:00 AM – 5:00 PM Synonym COPPER (II) SULFATE; BLUE VITRIOL Material Uses Chemical Inorganic salt. Family		In Case of Emergency Call 800–424–9300 CHEMTREC (USA) 613–996–66666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week		
Section 2. Con Component CUPRIC SULF	mposition and Information on Ingredients ATE		CAS # 7758–99–8	% by Weight 8 100

Section 3. Hazards Identif

Section 5. Huzaru	
Physical State and	Solid. (Crystalline solid. Powdered solid.)
Appearance	
Emergency	WARNING!
Overview	HARMFUL IF INHALED OR SWALLOWED.
	MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN
	IRRITATION.
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Potential Acute He	alth
Effects	
Eyes	May be hazardous in case of eye contact (irritant).
Skin	May be hazardous in case of skin contact (irritant). Skin inflammation is
	characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	Hazardous in case of inhalation. May be hazardous in case of inhalation
	(lung irritant).
Ingestion	Hazardous in case of ingestion.
Potential Chronic H	Health Effects
Carcinogeni	c This material is not known to cause cancer in animals or humans.
Effect	S
	Additional information See Toxicological Information (section 11)
Medical Conditions	Repeated exposure to a highly toxic material may produce general
Aggravated by	deterioration of health by an accumulation in one or many human organs.
Overexposure:	
-	

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the	e Non–flammable.
Product	
Auto-ignition	Not applicable.
Temperature	
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of	Not available.
Combustion	
Fire Hazards in	Not applicable.
Presence of Various	S
Substances	
Explosion Hazards	Risks of explosion of the product in presence of static discharge: No.
in Presence of	
Various Substances	Risks of explosion of the product in presence of mechanical impact:
	No.
Fire Fighting Media	a Not applicable.
and Instructions	
Protective Clothing	Not applicable.
(Fire)	
Special Remarks or	n Not available.
Fire Hazards	
Special Remarks or	n Not available.
Explosion Hazards	

Section 6. Accidental Release Measures

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Section 7. Handling and Storage Handling Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe dust. Storage Keep container tightly closed. Keep container in a cool, well–ventilated area. Section 8. Exposure Controls/Personal Protection Engineering Engineering Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limit. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Personal Protection Eyees Splash gogles. Body Lab coat. Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Hands Gloves. Feet Not applicable. Protective Clothing esf-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Product Name Exposure Limits CUPRIC SULFATE BAUA (Germany, 1997). PEAK: 4 mg/m3 MAK: 1 mg/m3 MAK: 1 mg/m3 MAK: 1 mg/m3 Mark: 1 mg/m3 MAK: 1 mg/m3 Mark: 1 mg/m3 Mark: 1 mg/m3	Spill Kit Information	the MSDS and with local authorities. No specific spill kit required for this product.
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TWA: 1 mg/m3 AFS (Sweden, 1996).		
AFS (Sweden, 1996).		Tyterveyslaitos (Finland, 1998).
NGV: 1 mg/m3		
		NGV: 1 mg/m3

Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	Blue.
Physical State and	Solid. (Crystalline solid. Powdered solid.)
Appearance	
Molecular Weight	249.7 g/mole
Molecular Formula	04–S.Cu.5H2–O
pH	Not available.
Boiling/Condensati	on Not available.
Point	
Melting/Freezing	Decomposes.
Point	
Specific Gravity	Not available.

Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

	· · · · · · · · · · · · · · · · · · ·	
Stability and	The product is stable.	
Reactivity		
Conditions of	Not available.	
Instability		
Incompatibility with Not available.		
Various Substances		
Rem/Incompatibilit	y Not available.	
Hazardous	sulfur oxides (SO2, SO3) Copper fumes	
Decomposition		
Products		
Hazardous	Will not occur.	
Polymerization		

Section 11. Toxicological Information

RTECS Number:	
(Cupric Sulfate, Pentahydrate, Fine GL8900000
(Crystals, GR
Toxicity	Acute oral toxicity (LD50): 300 mg/kg [Rat].
Chronic Effects on	Not available.
Humans	
Acute Effects on	May be hazardous in case of eye contact (irritant). May be hazardous in
Humans	case of skin contact (irritant). Skin inflammation is characterized by
	itching, scaling, reddening, or, occasionally, blistering. Hazardous in case
	of inhalation. May be hazardous in case of inhalation (lung irritant).
	Hazardous in case of ingestion.
Synergetic Products	
(Toxicologically)	
Irritancy	Draize Test: Not available.
Sensitization	Not available.
Carcinogenic	This material is not known to cause cancer in animals or humans.
Effects	
Toxicity to	Not available.
Reproductive	
System	
Teratogenic Effects	Not available.
Mutagenic Effects	Not available.
2	

Section 12. Ecological Information

EcotoxicityNot available.BOD5 and CODNot available.Toxicity of theThe products of degradation are less toxic than the product itself.Products ofImage: Construct of the product itself of the product itself of the product itself.

Biodegradation

Section 13. Disp	oosal Considerations
EPA Waste	Not available.
Number	
Treatment	Material does not have an EPA Waste Number and is not a listed waste,
	however consultation with a permitted waste disposal site (TSD) should
	be accomplished. Always contact a permitted waste disposal (TSD) to
	assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification	Proper Shipping Name:
	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID, N.O.S. (CUPRIC
	SULFATE)
	Hazard Class: 9
	UN number: UN3077
	Packing Group: III
	RQ: 10 lbs. (4.536 kg)
TDG Classification	Not available.
IMO/IMDG	Proper Shipping Name:
Classification	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID, N.O.S. (CUPRIC
	SULPHATE)
	Hazard Class: 9
	UN number: UN3077
	Packing Group: III
	RQ: 10
ICAO/IATA	Proper Shipping Name:
Classification	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID, N.O.S. (CUPRIC
	SULFATE)
	Hazard Class: 9
	UN number: UN3077
	Packing Group: III
	RQ: 10

Section 15. Regulatory Information

U.S. Federal	TSCA 8(b) inventory: CUPRIC SULFATE
Regulations	
	SARA 302/304/311/312 extremely hazardous substances: No products
	were found.
	SARA 302/304 emergency planning and notification: No products were
	found.
	SARA 302/304/311/312 hazardous chemicals: CUPRIC SULFATE
	SARA 311/312 MSDS distribution – chemical inventory – hazard
	identification: CUPRIC SULFATE: Immediate (Acute) Health Hazard,
	Delayed (Chronic) Health Hazard
	SARA 313 toxic chemical notification and release reporting: No products
	were found.

Cupric Sulfate, Pentahydrate, Crystals, Technical				
	Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found.			
	Clean air act (CAA) 112 regulated flammable substances: No products were found.			
	Clean air act (CAA) 112 regulated toxic substances: No products were found.			
WHMIS (Canada)	Class D–1B: Material causing immediate and serious toxic effects (TOXIC).			
	No products were found.			
	This product has been classified in accordance with the hazard criteria of			
	the Controlled Product Regulations and the MSDS contains all required			
	information.			
International				
Regulations				
EINECS	Not available.			
DSCL (EEC)	R22– Harmful if swallowed.			
	R36/37/38– Irritating to eyes, respiratory system and skin.			
International	Australia (NICNAS): CUPRIC SULFATE			
Lists				
	Japan (MITI): CUPRIC SULFATE			
	Philippines (RA6969): CUPRIC SULFATE			
	China: No products were found.			
State Regulations	No products were found.			
	California prop. 65: No products were found.			

Section 16. Other Information

	National Fire Protection Association (U.S.A.)	0 20	Fire Hazard Reactivity
		Health	
Changed Since Last			Specific Hazard

Changed Since Last + Revision

Notice to Deads

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.