



MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: 7388

Product Description: Cyanide Reagent #1

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	7758-99-8 Cupric Sulfate, 5-Hydrate	2	1 mg/cubic m (dust)as Cu	1 mg/cubic m (dust)as Cu
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion

May irritate skin and eyes. May stain skin. Harmful if swallowed. Nausea, pain and vomiting.

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 1 Flammability: 0 Reactivity: 0

Carcinogenicity: None:

Other Health Related Comments:

See Section 11, Toxicity

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4. First Aid Measures

Eye Contact: Flush thoroughly with water.

Skin Contact: Flush thoroughly with water. Wash skin with soap and water.

Ingestion: Drink water. Induce vomiting immediately. Consult physician.

Inhalation: Inhalation causes irritation of respiratory tract. Remove to fresh air. If breathing is difficult, give oxygen and call a doctor.

5. Fire Fighting Measures

Flash Point (Method Used): N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Not a fire hazard

Special Fire Fighting Procedures: N/A

Unusual Fire & Explosion Hazard: N/A

6. Accidental Release Measures

Mop up. Flush small amounts down drain with excess water.

7. Handling & Storage

Store tightly closed in cool, dry place away from incompatible materials. Solution is acidic and can react with magnesium to evolve flammable hydrogen gas.

8. Exposure Controls/Personal Protection

Ventilation

Normal

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Wash after handling.

9. Physical & Chemical Properties

Appearance: Light Blue Liquid

Solubility In Water: Soluble

Odor: None

pH: 4

Vapor Density: <1 (Air=1)

Vapor Pressure: <17 mm Hg @ 20 deg C

Boiling Point: Unknown

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat

Incompatibility (Materials To Avoid): Strong reducers, oxidizers

Hazardous Decomposition Products: SO_x

11. Toxicological Information

Oral rat LD50: 300 mg/kg for cupric sulfate (anhydrous)--Toxic. Fatalities have occurred from ingestion of gram quantities. Repeated skin exposure to copper salts may cause dermatitis. Cupric sulfate, anhydrous investigated as a tumorigen, mutagen.

Target Organs: Skin

Pre-Existing Conditions Aggravated By Exposure: Persons with preexisting skin disorders,

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12. Ecological Information

When released into the soil or to water this material is not expected to biodegrade. It may leach into groundwater. It is expected to significantly bioaccumulate. Cupric sulfate has an experimentally determined bioconcentration factor (BCF) of >100.

13. Disposal Considerations

Small amounts: Flush down drain with excess water. Large amounts: Dispose of as hazardous waste. Follow federal, state and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: Not regulated for shipping.

IATA: Not regulated for shipping.

Hazard Class/Div:

DOT:

IATA:

UN:

Packing Group:

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	7758-98-7 Copper Sulfate, anhydrous	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
7758-98-7 Copper Sulfate, anhydrous	No	No	No	Copper comp.	10	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

Hazard Categories

----- Australia -----

**Hazchem
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient	Acute	Chronic	Fire	Pressure	Reactivity	Hazchem Code	Poison Schedule	This MSDS Is WHMIS Compliant
7758-98-7 Copper Sulfate, anhydrous	Yes	Yes	No	No	No	None Allocated	S5	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
product 7388 as a whole	Yes	Yes	No	No	No	None Allocated	None Allocated	Yes

16. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 9/8/2008
