



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 555
Effective Date February 18, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CUPRIC SULFIDE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	0																	
Reactivity	0																	
Chemical Synonyms	Indigo Copper, Copper (II) Sulfide																	
Formula	CuS																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	1317-40-4																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cupric Sulfide	100%	See Section V.

WARNING! MAY BE HARMFUL IF SWALLOWED OR INHALED.

CAUSES IRRITATION TO SKIN AND EYES. CONTACT WITH

ACIDS LIBERATES HYDROGEN SULFIDE - A TOXIC GAS.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 200°C (392°F)	Specific Gravity (H ₂ O = 1)	4.70
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Insoluble.		
Appearance & Odor	Blue-black powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. When heated to decomposition, emits toxic fumes of oxides of sulfur. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Negligible fire hazard when exposed to heat or flame. Hazardous decomposition may be produced as dust or fume.

D.O.T. **Non Regulated.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

CC 555

Threshold Limited Value (Air) As copper metal: 1.0 mg/m³ for 8 hr. working day.
Copper (fume) TLV 0.2 mg/m³.

Effects of Overexposure Harmful if swallowed. May cause irritation to gastrointestinal tract, abdominal pain, nausea, vomiting, diarrhea and gastritis. Contact with skin and eyes may cause irritation, redness, pain. Inhalation of copper salts causes irritation of the respiratory tract with occasional ulceration and perforation of the nasal septum.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If discomfort or illness develops, call a physician.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Oxidized to Cupric Sulfate (CuSO ₄) by moist air.
	Stable	X		

Incompatibility (Materials to Avoid) Strong acids, oxidizing agents.

Hazardous Decomposition Products Contact with strong acids liberates hydrogen sulfide (H₂S) a toxic gas. Thermal decomposition, emits toxic fumes of oxides of sulfur.

Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur	Will Not Occur	
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Avoid generating dust. Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved chemical landfill or contact a licensed chemical waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be required in normal laboratory use. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment Goggles, smock, apron, proper gloves, ventilation hood, and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from acids. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. Hydrogen Sulfide gas (H₂S) deadens the sense of smell. Do not depend on odor to detect presence of gas. Avoid contact with skin and eyes. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision No. 4	Date 2/18/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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