



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 560
Effective Date February 19, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CUPROUS CHLORIDE, ANHYDROUS	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 0 1 2 3 4
Chemical Synonyms	Nantokite Copper (I) Chloride	
Formula	CuCl	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7758-89-6	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cuprous Chloride, Anhydrous	100%	See Section V.
WARNING! CORROSIVE! HARMFUL IF SWALLOWED OR INHALED.		
IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezing point 422°C (792°F)	Specific Gravity (H ₂ O = 1)	3.53
Boiling Point (°F)	1366°C (2490°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 546°C	Evaporation Rate (Butyl Acetate = 1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	0.0062 grams per 100 mL. water at 20°C with partial decomposition.		
Appearance & Odor	Tan to grayish white powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	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 and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of copper dust or fume and hydrogen chloride.

D.O.T. **Copper chloride, 8, UN 2802, PG III**

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

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value TWA as copper fume: 0.2 mg/m³; as Copper dusts and mists: 1 mg/m³.
TXDS: Oral-rat LD₅₀: 265 mg/kg.

Effects of Overexposure **TARGET ORGANS AFFECTED:** Respiratory system, skin, liver, kidneys.
INGESTION: Copper salts impart a metallic taste in mouth. May cause gastrointestinal irritation and vomiting. May be fatal if swallowed. **EYES:** Corrosive; causes conjunctivitis. **SKIN:** Irritating to skin, may cause allergic reaction. **INHALATION:** Causes upper respiratory irritation, headache, dizziness, nausea and incoordination.

Emergency and First Aid Procedures **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give two glasses of milk or water to drink. Call physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid Moisture, sunlight; solutions oxidize rapidly in air.
	Stable	X	

Incompatibility (Materials to Avoid) Reacts violently with potassium and with strong oxidizing materials. In presence of moisture, may corrode metals.

Hazardous Decomposition Products Decomposition emits toxic copper dust, fume or chlorine gas.

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X

Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sprinkle lime or soda ash on spill to form insoluble copper salt. Sweep up and place in a suitable container for disposal. Wash spill area with soap and water. Avoid contaminating public 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 contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in 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 goggles.

Other Protective Equipment Lab coat, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from strong oxidizing materials and protect from light. Avoid contact with eyes, skin and mucous membranes. 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. Stable to air and light if dry, but in the presence of moisture turns green on exposure to air and blue to brown on exposure to light. Remove and wash contaminated clothing.

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

Revision No. 7	Date 2/19/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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