Science K & Boreal Laboratories

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MATERIAL SAFETY DATA SHEET

MSDS No. CC 475
Effective Date September 24, 1992

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177
Night 716-334-4222

Product	CUPRIC ACETATE
Chemical Synonyms	Copper (II) Acetate 1-Hydrate
Formula	$Cu(O_2CCH_3)_2 \cdot H_2O$
Unit(s) Size	100, 500 grams; 2.5 Kg.
C.A.S. No.	6046-93-1 (Monohydrate)

NFPA HAZARD RATING

Health	2
Fire	0
Reactivity	1

LEAST 0 | SLIGHT 1 | MODERATE 2 | HIGH 3 | EXTREME 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Cupric Acetate, Monohydrate	91-100%	See Section V.
CAUTION! HARMFUL IF INHALED OR SWALLOWED.		-
DUST IRRITATING TO EYES AND RESPIRATORY		
TRACT. CAUSES SKIN AND EYE IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	115°C (239°F)	Specific Gravity (H_2O = 1)	1.882 at 20°C
Boiling Point (°F)	Decomposes at 240°C (464°F)	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Soluble 7.2-20 g/100 g H_2O.		
Appearance & Odor	Blue-green crystals; no odor or slight acetous odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and full protective clothing.
Avoid flushing to sewer or stream if possible. Toxic to aquatic life.

(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4, GUIDE PAGE NO. 31)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. **NON-REGULATED.**

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

(Air) As copper metal: 1.0 mg/m^3 for 8 hr. work day.
Copper (fume) T.L.V. 0.2 mg/m^3.

Effects of Overexposure

INGESTION: Can cause copper poisoning and/or death. SYMPTOMS: Nausea, vomiting, diarrhea, and gastric pain. EYES: Corrosive; causes conjunctivitis. SKIN: May cause allergic skin reaction. INHALATION: Causes upper respiratory irritation and congestion of the nasal mucous membranes.

Emergency and First Aid Procedures

INGESTION: If conscious, give one or two glasses of water, induce vomiting and call a physician. EYES: Immediately flush with water for 15 minutes. Get immediate medical attention. SKIN: Wash thoroughly with soap and water. INHALATION: Remove to fresh air. Get medical attention.

SECTION VI REACTIVITY DATA

Stability			Conditions to Avoid
	Unstable		Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid) Strong oxidizers, Nitric acid.

Hazardous Decomposition Products If dry heated may produce acetic acid fumes. Combustion will produce carbon dioxide and probably carbon monoxide.

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

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Sweep up and place in a suitable container. Avoid contaminating public water supply.

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 needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH-approved dust mask or respirator.

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.

Other Protective Equipment Safety glasses, smock, apron, ventilation hood, proper gloves, and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool place, below 35°C.
Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

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

Rev. No.	Date	Approved	Chemical Safety Coordinator
No. 3	9/24/92	Alexander A. Piccirilli	AP

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