MATERIAL SAFETY DATA SHEET

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NO.	121	

CUPRIC CHLORIDE

DATE October 1983

SECTION I. MATERIAL IDEN	ITIFICATION								
MATERIAL NAME: CUPRIC CHLORIDE OTHER DESIGNATIONS: Copper (II) Chloride, CuCl ₂ , CAS #007 447 394; CuCl ₂ ·2H ₂ O, CAS #013 933 170; also CAS #001 344 678 MANUFACTURER: Available from several suppliers, including: Mallinckrodt, Inc. P.O. Box M Paris, KY 40361 Paris, KY 40361 Tel: (606) 987-7000 MALLINCHRORIDE OF THE COLUMBUS OF									
SECTION II. INGREDIENTS	223 16 %	Tel: (614) 224-5343 HAZARD DATA							
Cupric Chloride (forms the dihydrate, CuCl ₂ ·2H ₂ O in moist air) *Current OSHA PEL and ACGIH (1983) TLV. STEL is 2.0 mg/m ³ (dust or mist, as Cu) *CuCl ₂ Rat Oral LI 0 140 mg/kg Mouse, Oral LD ₅₀ 190 mg/kg Fuman, Oral LDL ₀ 200 mg/ke SECTION III. PHYSICAL DATA CuCl ₂ CuCl ₂ ·2H ₂ O									
Boiling pt, 1 atm, deg C 993 (dec) loses water 70-200C (at >300 C (decomposes to CuCl and Cl2) Specific gravity, 25/4C 3.39 2.54 Melting point, deg C									
SECTION IV. FIRE AND EXPLOSION DATA						Upper			
Flash Point and Method Autoignition Temp. Flammability Limits in Air									
None				<u></u>					
Extinguishing media: Non-combustible. Use any media appropriate for the surrounding fire. Use water spray to cool fire-exposed containers. Material exposed in a fire situation will decompose at extreme temperatures releasing chlorine gas. Firefighters should wear self-contained breathing apparatus and protective clothing.									
SECTION V. REACTIVITY DA	TA		,						
This is a stable material and handling conditions. Cupric Chloride (CuCl ₂) is A mixture of either potass on impact. Incompatible moisture present	in closed containers It does not undergo hygroscopic. Forms of sium or sodium with co	hazardous polyme dihydrate in mois upric chloride pr	rization t air. oduces a	n. a stron	ig expl	losion			

Thermal-oxidative degradation can produce chlorine gas, which can also be generated on

Aqueous solutions are acidic (See Section III).

reaction with strong oxidizing agents.

SECTION VI. HEALTH HAZARD INFORMATION

TLV 1.0 mg/m (See Sect II) (dust or mist, as Cu

Inhalation of dusts or mists results in coughing, sore throat and irritation of the upper respiratory tract. Skin contact can cause redness and irritation with possible dermatitis. Eye contact will cause redness, pain and possible blurred vision from its corrosive effects. Ingestion will cause abdominal pain, vomiting and diarrhea. Copper is an essential trace element in the body, but can be toxic in excessive exposures.

FIRST AID: .

Eye Contact: Irrigate with running water for 15 min. including under eyelids. Skin Contact: Wash affected area with soap and water.

Inhalation: Remove to fresh air.

Ingestion: Give several glasses of water to drink to dilute. Induce vomiting. Seek medical assistance for further treatment, observation and support after first aid.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel. Provide adequate ventilation. Clean up personnel need protection against possible inhalation of dust and contact with solid or solution (corrosive). Carefully sweep up dry material and collect in a suitable container for reclamation or disposal, avoiding dusty conditions. Avoid flushing directly to sewers (except, possibly, a few grams or trace residues with high dilution) or surface waters. Material dissolved in water can be neutralized with soda ash to precipitate copper; separate precipitate for disposal.

DISPOSAL: Waste may be buried in an approved landfill.

Follow Federal, State and Local regulations.

EPA(CWA) Reportable Quantity is 10 lbs. (40 CFR 117)

SECTION VIII. SPECIAL PROTECTION INFORMATION

Provide adequate general exhaust ventilation to meet TLV requirements. Exhaust filtration to collect dust may be required or desirable.

Use a NIOSH approved dust mask when handling large quantities of material or where dusting conditions exist.

Wear protective clothing (rubber gloves, apron, boots) appropriate for the work situation to avoid skin contact. Use chemical safety goggles to prevent eye contact.

Eyewash station and washing facilities should be accessible to areas of use and handling.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in tightly closed containers under dry conditions to preserve anhydrous salt or the crystalline hydrate. Protect containers from physical damage.
Use good housekeeping techniques. Copper chloride solutions are acidic and corrosive.
Avoid inhalation of dust or mist. Prevent skin and eye contact. Do not ingest. Wash hands and face thoroughly after handling. Follow good hygiene practices.

DOT Classification: ORM-B I.D. No. UN2802 Label: (None) DATA SOURCE(S) CODE: 1,2,4-7,9,10,12,14

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