

GFS CHEMICALS, INC.
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MATERIAL SAFETY DATA SHEET

3615

CUPRIC CHLORIDE, DIHYDRATE

CHEMICAL NAME & SYNONYMS

Cupric Chloride, Dihydrate; Copper (II) Chloride

DOT CLASS

8/III

TSCA listed - Yes

SARA TITLE 313

Yes - Cu Cmpds

FORMULA

CuCl₂•2H₂O

REPORTABLE QUANTITY

4.54 kg

F.W.

170.48

CAS#

10125-13-0 (hyd)

7447-39-4 (anhyd)

PHYSICAL DATA

Density 2.5; Melting point 100°C (loses water of hydration). Water soluble.

APPEARANCE & ODOR

Light blue-green crystals. Odor of hydrochloric acid.

REACTIVITY & CONDITIONS TO AVOID

Stable. No hazardous self-reaction. A corrosive solid. Incompatible with alkali metals, hydrazine and acetylene. Corrosive to aluminum.

FIRE HAZARDS

May emit toxic fumes when heated in general fire. Avoid inhalation of smoke.

Firefighters wear SCBA. NFPA #2-0-1

EXTINGUISHER

Fight surrounding fire.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

Irritating to skin, eyes and mucous membranes. Ingestion causes pain in mouth, throat and stomach. Nausea, vomiting and diarrhea may follow. Systemic copper poisoning involves headache, weak pulse and kidney or liver damage, convulsions, **paralysis and coma**. LD₅₀ (oral-rat) 584 mg/kg. OSHA PEL/ACGIH TLV TWA: 1 mg (Cu)/m³. No evidence of carcinogenicity. **Investigated as a mutagen.**

SPECIAL PRECAUTIONS

Wear goggles and rubber gloves while handling. Use good ventilation or suitable respirator if dust is raised to avoid inhalation.

FIRST AID

Wash skin or eyes thoroughly with water after contact. Get medical attention for eyes or if irritation persists. If swallowed, give water or milk and get immediate medical attention. If inhaled, remove to fresh air. If breathing difficulties arise, give oxygen or respiration as needed and get medical attention.

SPILLS & LEAKS

Sweep with absorbent, minimize dust formation. Collect for reclamation or disposal to hazardous waste. Disposal to sewer is regulated, check local regulations prior to disposal of any quantity in this manner.

CATALOG #

3615

PREPARED BY

MDM

DATE

March 19, 2004