

Material Safety Data Sheet



Copper (II) Chloride, Dihydrate

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Carolina Biological Supply Company

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Section 1 - Product Description

Product Name: Cupric Chloride, Dihydrate

Product Code(s): 85-6440, 85-6450, 85-6452, 84-0900, 85-6442, 89-9021, 85-6430, C55097

Size: Various

Chemical Name: Copper II Chloride

CAS Number: 10125-13-0

Formula: $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$

Synonyms: Copper (II) Chloride, Dihydrate

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Harmful if swallowed.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Cupric Chloride, Dihydrate (CAS# 10125-13-0) 90-100%

TLV units: ACGIH-TLV 0.05 mg(Cu)/m³ (TWA)

PEL units: OSHA-PEL 0.1 mg(Cu)/m³ (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:**Health:** 2**Fire:** 0**Reactivity:** 1**Extinguisher Media:** Use media suitable to extinguish surrounding fire.**Flammable Limits in Air % by Volume:** N/A**Autoignition Temperature:** N/A**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.**Ventilation:****Local Exhaust:** Yes**Mechanical(General):** Yes**Special:** No**Other:** No**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.**Eye Protection:** Splash proof chemical safety goggles should be worn.**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 170.48**Boiling Point:** Decomposes**Vapor Density(Air=1):** N/A**Percent Volatile by Volume:** 0%**Solubility in Water:** Soluble**Melting Point:** 100 °C**Vapor Pressure:** N/A**Specific Gravity (H₂O=1):** 2.54 at 20 °C**Evaporation Rate (BuAc=1):** N/A**Appearance and Odor:** Blue green crystals or granules -

odorless.

Section 10 - Reactivity Data

Stability: Stable**Conditions to Avoid:** Moisture; Product is hygroscopic.**Incompatibility (Materials to Avoid):** Alkalis, Water,**Hazardous Decomposition Products:** HCl,**Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Toxicity Data: (Cupric Chloride) orl-rat LD50 140 mg/kg**Effects of Overexposure:****Acute:** See Section 2**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA. Mutation data cited. Reproductive data cited.**Conditions Aggravated by Overexposure:** N/A

Target Organs: N/A
Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN2802, Copper chloride, 8, III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

Name List:

Cupric Chloride Dihydrate - Yes

Chemical Category:

Cupric Chloride Dihydrate - Copper

CERCLA Section 103 RQ(lb.): Cupric Chloride Dihydrate - 10 lbs

RCRA Section 261.33: Cupric Chloride Dihydrate - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act