Copper (II) Chloride, 5%



Section 1

Product Description

Product Name:Copper (II) Chloride, 5%Recommended Use:Science education applicationsSynonyms:Cupric Chloride Solution

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING





May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.

GHS Classification:

Substance or mixture corrosive to metals Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 95

 Copper (II) Chloride, Dihydrate
 10125-13-0
 5

Section 4

First Aid Measures

Emergency and First Aid Procedures

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

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Copper compounds, Hydrogen chloride

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Absorb spillage to prevent material damage.

Section 7 Handling and Storage

Keep only in original container. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye Handling:

protection/face protection.

Store in corrosive resistant/... container with a resistant inner liner. Suitable for any general chemical storage. Storage:

Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL (TWA) **Chemical Name** (STEL) (TWA) (STEL) Copper (II) Chloride, Dihydrate 1 mg/m3 TWA (dust N/A N/A N/A

and mist, as Cu)

Control Parameters

Respirator Type(s):

Eye Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

Lab coat, apron, eye wash, safety shower.

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this

product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Gloves: No information available

Section 9 Physical Data

Formula: No data available

Molecular Weight: No data available Appearance: Blue Green Liquid

Odor: None

Odor Threshold: No data available

pH: No data available Melting Point: Estimated 0 C Boiling Point: Estimated 100 C 100 C Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Specific Gravity: Approx. 1 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: No data available.

Water-reactive materials, Acids, Sodium Metal, Potassium Metal, Strong oxidizing agents, **Incompatible Materials:**

Aluminum alloys

Hazardous Decomposition Products: Hydrogen chloride, Copper compounds

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Ingestion.

Symptoms (Acute): Hypotension, Tachycardia, Convulsions, Anemia

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Copper (II) Chloride, Dihydrate 10125-13-0 Oral LD50 Rat 140

mg/kg

Oral LD50 Mouse

233 mg/kg

Oral LD50 Rat 584

mg/kg

Oral LD50 Mouse 110 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHACopper (II) Chloride, Dihydrate10125-13-0Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No data available Chronic: No data available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.

Persistence: Dissolved into water

Bioaccumulation: Bioconcentration may occur.

Degradability: No data **Other Adverse Effects:** No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Copper (II) Chloride, Dihydrate 10125-13-0 Aquatic LC50 (96h) Rainbow Trout 286 ul/l

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|---------------------------------|---------------|------------|----------|-----------|-----------|------------------|
| Copper (II) Chloride, Dihydrate | 10125-13-0 | No | No | No | No | No |

Section 16

Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

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.

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