Copper (I) Chloride



Section 1

Product Description

Product Name: Copper (I) Chloride

Recommended Use: Science education applications
Synonyms: Cuprous Chloride, Anhydrous
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;

DANGER









Toxic if swallowed. Causes skin irritation. Causes serious eye damage. Harmful if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1, Skin Corrosion/Irritation Category 2, Acute Toxicity - Oral Category 3, Acute Toxicity - Inhalation Dus / Mist Category 4

Acute Toxicity Dermal Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Copper (I) Chloride
 7758-89-6
 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

to do. Continue rinsing.

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: Immediately call a POISON CENTER or doctor/physician.

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: N/A

Hazardous Combustion Products: Hydrogen chloride, Copper compounds

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during cleanup.

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. Vacuum or sweep up material and place in a disposal container Collect spillage.

Section 7

Handling and Storage

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke

when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-

ventilated place.

Storage: Store locked up. Suitable for any general chemical storage.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8

Protection Information

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)
 (TWA)
 (STEL)
 (STEL)
 (TWA)
 (STEL)
 (STE

Control Parameters

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

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if levels above the exposure limits are possible.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

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

Lab coat, apron, eve wash, safety shower.

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 work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Gloves: Nitrile

Section 9

Physical Data

Formula: CuCl

Molecular Weight: 99.00 g/mol Appearance: Beige Powder Odor: No data available

Odor Threshold: No data available

pH: 5 at 50 g/l at 20 °C Melting Point: 430 C Boiling Point: 1490 C Flash Point: No data available

Flammable Limits in Air: N/A N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 3.53

Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: 0% at 21 °C

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known. Contact with air. Visible light Contact with water

Hazardous Decomposition Products: Copper compounds, Hydrogen chloride

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Eye, Inhalation, ingestion Symptoms (Acute): Eve disorders, Skin **Delayed Effects:** No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50 Inhalation LC50** Copper (I) Chloride 7758-89-6 Oral LD50 Mouse Not determined **INHALATION** 347 mg/kg

Oral LD50 Rat 140

mg/kg

LC50 Mouse 1008

MG/M3

Carcinogenicity:

Chemical Name NTP **CAS Number IARC OSHA** No data available 7758-89-6 Not listed Not listed Not 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.

No evidence of negative reproductive effects. Reproductive:

Target Organ Effects:

Acute: See Section 2

Not listed as a carcinogen by IARC, NTP or OSHA. Chronic:

Section 12

Ecological Data

Severe ecological hazard. This product may be toxic to plants and/or wildlife. Highly/very toxic to Overview:

fish and other water organisms.

Mobility: No data Persistence: No data No data Bioaccumulation: Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

N/A 7758-89-6

Section 13

Disposal Information

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

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

Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN2802, Copper Chloride, 8, III UN number: 2802 Class: 8 Packing group: III Proper shipping

name: Copper chloride

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
No data available	7758-89-6	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.

Glossary

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