Copper (II) Chloride, Anhydrous



Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Copper (II) Chloride, Anhydrous Science education applications Cupric Chloride Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

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

WARNING



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

GHS Classification:

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

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

CAS #

7447-39-4

Chemical Name	
Copper (II) Chloride, Anhydrous	

Section 4

First Aid Measures

Emergency and Fi	rst Aid Procedures
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Section 5	Firefighting Procedures
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	Take off contaminated clothing and wash before reuse.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

%

100

Fire Fighting Methods and Protection: Fire and/or Explosion Hazards: Hazardous Combustion Products:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Fire or excessive heat may produce hazardous decomposition products. Hydrogen chloride				
Section 6	Spill or Leak P	rocedures			
Released or Spilled: ec ne cir ar sp Pr to re gr	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. Prevent the spread of any spill to minimize harm to human health and the environment if sait 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 Collect spillage.				
Section 7	Handling and	Storage			
environment. Wear pr internally. Keep locke	r handling. Do no eat, drink or rotective gloves/protective clo d up and out of the reach of y closed in a cool, well-ventil nical storage Protection Inf	othing/eye protection children. ated place.			
	ACGIH		<u>OSH</u>		
<u>Chemical Name</u> Copper (II) Chloride, Anhydrous	ACGIH (TWA) 1 mg/m3 TWA (dust and mist, as Cu)	(STEL) N/A	<u>OSHA</u> (TWA) N/A	<u>A PEL</u> (STEL) N/A	
	(TWA) 1 mg/m3 TWA (dust and mist, as Cu) Local exhaust ventilation c	N/A	(TWA) N/A	(<u>STEL)</u> N/A	
Copper (II) Chloride, Anhydrous Control Parameters	(TWA) 1 mg/m3 TWA (dust and mist, as Cu) Local exhaust ventilation of handling or using this proof Lab coat, apron, eye wash No respiratory protection r exhaust ventilation if symp	N/A or other engineering luct to avoid overes a, safety shower. equired under norm otoms of overexpos	(TWA) N/A controls are normally cosure. nal conditions of use. P	(STEL) N/A required when Provide general room	
Copper (II) Chloride, Anhydrous Control Parameters Engineering Measures: Personal Protective Equipment (PPE):	(TWA) 1 mg/m3 TWA (dust and mist, as Cu) Local exhaust ventilation of handling or using this proof Lab coat, apron, eye wash No respiratory protection r exhaust ventilation if symp respirator is not normally r None required where adeo	N/A br other engineering luct to avoid overes a, safety shower. equired under norm otoms of overexpos equired. quate ventilation is	(TWA) N/A g controls are normally posure. nal conditions of use. P ure occur as explained provided. If airborne co	(STEL) N/A Provide general room Section 11. A poncentrations are	
Copper (II) Chloride, Anhydrous Control Parameters Engineering Measures: Personal Protective Equipment (PPE): Respiratory Protection:	(TWA) 1 mg/m3 TWA (dust and mist, as Cu) Local exhaust ventilation of handling or using this proof Lab coat, apron, eye wash No respiratory protection r exhaust ventilation if symp respirator is not normally r None required where adeo above the applicable expo Wear chemical splash gog	N/A br other engineering luct to avoid overes a, safety shower. equired under norm otoms of overexpos equired. quate ventilation is sure limits, use NIC	(TWA) N/A g controls are normally posure. nal conditions of use. P ure occur as explained provided. If airborne co DSH/MSHA approved r	(STEL) N/A required when Provide general room Section 11. A poncentrations are respiratory protection.	
Copper (II) Chloride, Anhydrous Control Parameters Engineering Measures: Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s):	(TWA) 1 mg/m3 TWA (dust and mist, as Cu) Local exhaust ventilation of handling or using this proof Lab coat, apron, eye wash No respiratory protection r exhaust ventilation if symp respirator is not normally r None required where adeo above the applicable expo	N/A br other engineering luct to avoid overes a, safety shower. equired under norm otoms of overexpos equired. guate ventilation is sure limits, use NIG ggles when handling ring chemically res n conditions of use rvals. Clean protect	(TWA) N/A g controls are normally cposure. hal conditions of use. P ure occur as explained provided. If airborne co DSH/MSHA approved r g this product. Have an istant gloves, an apron . Inspect gloves for che tive equipment regular	(STEL) N/A required when Provide general room Section 11. A procentrations are respiratory protection. a eye wash station and other protective emical break-through ly. Wash hands and	

Section 9

Physical Data

Formula: CuCl2	Vapor Pressure: No data available
Molecular Weight: 134.45	Evaporation Rate (BuAc=1): No data available
Appearance: Yellow to Brown Crystalline Solid	Vapor Density (Air=1): No data available
Odor: No data available	Specific Gravity: 3.39 at 20 °C
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: 630 C	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: 993 C
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Reactivity Data

Reactivity:
Chemical Stability:
Conditions to Avoid:
Incompatible Materials:
Hazardous Decomposition Products:
Hazardous Polymerization:

Mildly reactive - See below Stable under normal conditions. Exposure to moisture Hypobromite, Sodium Metal, Potassium Metal, Strong acids Hydrogen chloride Will not occur

Section 11

Section 10

Toxicity Data

Routes of Entry Symptoms (Acute): **Delayed Effects:**

Convulsions, Tachycardia, Paralysis, Hypotension, Gastric Hemmorage, Hemolytic Crisis Hepatolenticular Degeneration (Wilson's Disease)

Inhalation and ingestion.

Acute Toxicity: Chemical Name Copper (II) Chloride, Anh	nydrous	CAS Number 7447-39-4	Oral LD50 Oral LD50 Mouse 233 mg/kg Oral LD50 Mouse 110 mg/kg Oral LD50 Rat 584 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name Copper (II) Chloride, Anh	nydrous	CAS Number 7447-39-4	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a se	ratogenic effect (birth ensitization effect. ative reproductive effe			
Section 12		Ec	ological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	No data No data No data No data	logical hazard. This p	roduct may be toxic to	plants and/or wildlife.	

CAS Number

7447-39-4

Chemical Name Copper (II) Chloride, Anhydrous

Disposal Information

Eco Toxicity

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Aquatic EC50 (48h) Daphnia 0.04 MG/L

Section 14

Section 13

Transport Information

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name:

UN2802 Copper Chloride Class 8 P.G. III UN2802 Copper Chloride Class 8 P.G. III

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, Anhydrous	7447-39-4	No	10 lb RQ	10 lb final RQ; 4.54 kg final RQ	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

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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