Copper(II) chloride:sc-252631



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MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:Copper(II) chlorideProduct Number:sc-252631

Supplier:	Santa Cruz Biotechnology, Inc.
	2145 Delaware Avenue
	Santa Cruz, CA 95060
	800.457.3801 or 831.457.3800
Emergency:	ChemWatch
	Within the US & Canada: 877–715–9305
	Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.		EC-N	o. Inde	x-No. Conce	entration
Formula: Molecular Weight:	CuCl2 134.45 g/mol				
Synonyms:	Copper dichloride,	Cupric chloride			

7447–39–4

231-210-2

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3. HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards Target Organ Effect, Harm	nful by ingestion Irritant
Target Organs	
Liver, Kidney, Brain., Carc	liovascular system.
HMIS Classification	-
Health Hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical hazards:	0
NFPA Rating	
Health Hazard:	2
Fire:	0
Reactivity Hazard:	0
Potential Health Effects	
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes eye irritation.
Ingestion:	Harmful if swallowed.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physici

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

 Flash point
 not applicable

 Ignition temperature
 no data available

 Suitable extinguishing media
 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

 Special protective equipment for fire-fighters

 Wear self contained breathing apparatus for fire fighting if necessary.

 Further information

 The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Keep container tightly closed in a dry and well-ventilated place. hygroscopic Store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	solid	pH	no data available
Melting point	620 °C (1,148 °F)	Boiling point	no data available
Flash point	not applicable	Ignition temperature	no data available

Lower explosion limit	no data available
Water solubility	no data available

Upper explosion limit no data available Density

3.386 g/cm3 at 20 °C (68 °F)

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions. Materials to avoid Strong bases, Alkali metals Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Copper oxides, Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 584 mg/kg LD50 Intravenous - rat - 5 mg/kg LD50 Intraperitoneal - rat - 14.7 mg/kg Irritation and corrosion no data available Sensitisation no data available Chronic exposure

- No component of this product present at levels greater than or equal to 0.1% is identified as IARC: probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure

Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis., Gastrointestinal disturbance, Lowered blood pressure, Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue.

Potential Health Effects

Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes eye irritation.
Ingestion:	Harmful if swallowed.
Target Organs:	Liver, Kidney, Brain., Cardiovascular system.
Additional Information	
RTECS: GL7000000	

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available **Ecotoxicity effects** Toxicity to fish Toxicity to algae Toxicity to daphnia and other aquatic invertebrates.

mortality LC50 - Cyprinus carpio (Carp) - 0.12 - 0.23 mg/l - 96 h EC50 - Chlorella vulgaris (Fresh water algae) - 0.2 mg/l - 96 h Immobilization EC50 - Daphnia magna (Water flea) - 0.04 mg/l - 48 h

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. **Contaminated packaging** Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)			
UN-Number: 2802 Class: 8	Packing group: III		
Proper shipping name: Copper chloride			
Marine pollutant: Severe marine pollutant			
Poison Inhalation Hazard: No			
IMDG			
UN-Number: 2802 Class: 8	Packing group: III	EMS-No: F-A, S-B	
Proper shipping name: COPPER CHLORIDE			
Marine pollutant: Severe marine pollutant			
ΙΑΤΑ			
UN-Number: 2802 Class: 8	Packing group: III		
Proper shipping name: Copper chloride			
15. REGULATORY INFORMATION			
OSHA Hazards			
Target Organ Effect, Harmful by ingestion., Irr	itant		
TSCA Status			
On TSCA Inventory			
DSL Status			
All components of this product are on the Can	adian DSL list.		
SARA 302 Components			
SARA 302: No chemicals in this material are s	subject to the reporting requirer	nents of SARA Title III, Section 3	302.
SARA 313 Components	CAS-No.	Revision Date	
Copper dichloride	7447–39–4	1991–07–01	
SARA 311/312 Hazards			
Acute Health Hazard, Chronic Health Hazard			
Massachusetts Right To Know Components			
	CAS-NO.	Revision Date	
Copper dichloride	7447-39-4	1991–07–01	
Pennsylvania Right To Know Components			
	CAS-NO.	Revision Date	
Copper aichioride	/44/-39-4	1991-07-01	
New Jersey Right To Know Components		Devision Data	
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Copper alchioride	/44/-39-4	1991-07-01	
Camornia Prop. 65 Components			

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.