

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Copper(II) perchlorate hexahydrate: sc-223899



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Copper(II) perchlorate hexahydrate		
Product Number:	sc-223899		

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. HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards Oxidizer. Irritant. GHS Classification Oxidizing solids (Category 2) Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3) GHS Label elements, including precautionary statements Pictogram



	Signal word	Danger
Hazar	d statement(s)	
	H272	May intensify fire; oxidizer.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
Preca	utionary statement(s)
	P220	Keep/Store away from clothing/ combustible materials.
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
	P305 + P351	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	+ P338	if present and easy to do. Continue rinsing.
HMIS	Classification	
	Health hazard:	2
	Flammability:	0
	Physical hazards:	2
NFPA	Rating	
	Health hazard:	2
	Fire:	0
	Reactivity Hazard:	2
	Special hazard:	OX

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:	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Cupric perchloratehexahydrate Formula: Cu(ClO4)2 • 6H2O Molecular Weight: 370.54 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Copper(II) perchlorate hexahydrate			
10294–46–9	237–391–4	-	-

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 physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Hydrogen chloride gas, copper oxides **Further information**

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition – No smoking. Keep away from heat and sources of ignition.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Hygroscopic. Store desiccated at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

		-		
Components	CAS-No.	Value	Control	Basis
			parameters	
Copper(II) perchlorate hexahydrate	10294-46-9	TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits

Personal protective equipment **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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	crystalline
Melting point/freezing point	no data avai
Flash point	not applicab
Autoignition temperature	no data avai
Upper explosion limit	no data avai
Water solubility	no data avai
Odor	no data avai
Evaporation rate	no data avai
Partition coefficient:	no data avai
n-octanol/water	

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pН Boiling point Ignition temperature Lower explosion limit Vapor pressure Relative vapor density Odor Threshold Density

no data available 2.225 g/cm3 at 25 °C (77 °F)

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid Avoid moisture. Materials to avoid Reducing agents, organic materials, powdered metals, aluminum Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Hydrogen chloride gas, copper oxides Other decomposition products no data available

11. TOXICOLOGICAL INFORMATION Acute toxicity Oral LD50: no data available Inhalation LC50: no data available Dermal LD50: no data available Other information on acute toxicity: no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a ACGIH: 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. No component of this product present at levels greater than or equal to 0.1% is identified as a OSHA: carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** no data available Teratogenicity no data available Specific target organ toxicity – single exposure (Globally Harmonized System) Inhalation – May cause respiratory irritation. Specific target organ toxicity – repeated exposure (Globally Harmonized System) no data available Aspiration hazard no data available Potential health effects Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Indestion: May be harmful if swallowed. Skin: May be harmful if absorbed through skin. Causes skin irritation. Eves: Causes eye irritation. 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.

Synergistic effects no data available Additional Information RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity no data available Persistence and degradability no data available

Bioaccumulative potential no data available PBT and vPvB assessment no data available Mobility in soil no data available Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. 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: 1481 Class: 5.1 Packing group: II Proper shipping name: Perchlorates, inorganic, n.o.s. Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No **IMDG** UN number: 1481 Class: 5.1 Packing group: II Proper shipping name: PERCHLORATES, INORGANIC, N.O.S. Marine pollutant: No **IATA** UN number: 1481 Class: 5.1 Packing group: II Proper shipping name: Perchlorates, inorganic, n.o.s.

EMS-No: F-H, S-Q

15. REGULATORY INFORMATION

OSHA Hazards	
Oxidizer. Irritant.	
SARA 302 Components	
SARA 302: No chemicals in this material are subject to the reporting requirements of \$	SARA Title III, Section 302.
SARA 313 Components	
The following components are subject to reporting levels established by SARA Title III	, Section 313:
Copper(II) perchlorate hexahydrate	CAS-No.: 10294-46-9
SARA 311/312 Hazards	
Reactivity Hazard. Acute Health Hazard	

 Massachusetts Right To Know Components

 No components are subject to the Massachusetts Right to Know Act.

 Pennsylvania Right To Know Components

 Copper(II) perchlorate hexahydrate

 New Jersey Right To Know Components

Copper(II) perchlorate hexahydrate

California Prop. 65 Components

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

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.

4/12/2012

CAS-No.: 10294-46-9