

Trade name: Cupri chloridum crist

Substance number: 063048

Version: 5 / CH

Date revised: 17.12.2018

Replaces Version: 4 / CH

Print date: 01.10.19

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Cupri chloridum crist

Item No. 06304800

#### **Registration no.**

EC No.: 231-210-2

CAS No. 10125-13-0

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

Reagent for analyses, Chemical for synthesis

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1 H290

Acute Tox. 4 H302

Acute Tox. 4 H312

Skin Irrit. 2 H315

Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



#### **Signal word**

Danger

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**Hazard statements**

H290	May be corrosive to metals.
H302+H312	Harmful if swallowed or in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Copper(II) chloride dihydrate

**SECTION 3: Composition/information on ingredients****3.1. Substances****Chemical characterization**

Cupri chloridum crist

**Molecular weight**

Value 170.48 g/mol

**Hazardous ingredients****Copper(II) chloride dihydrate**

CAS No.	10125-13-0	
EINECS no.	231-210-2	
Concentration	<= 100	%
Classification (Regulation (EC) No. 1272/2008)		
	Met. Corr. 1	H290
	Acute Tox. 4	H302
	Acute Tox. 4	H312
	Skin Irrit. 2	H315
	Eye Dam. 1	H318
	Aquatic Acute 1	H400
	Aquatic Chronic 2	H411

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Summon a doctor immediately. In any case show the physician the Safety Data Sheet.

**After inhalation**

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

**After skin contact**

Wash off immediately with soap and water and rinse well. Summon a doctor immediately.

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**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Summon a doctor immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water mist, Alcohol-resistant foam, Dry chemical extinguisher, Carbon dioxide

**5.2. Special hazards arising from the substance or mixture**

Hydrogen chloride gas

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid dust formation. Do not inhale dust. Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not empty into drains.

**6.3. Methods and material for containment and cleaning up**

Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust (with a suitable filter to prevent particles blowing back into the atmosphere e.g. Type H(BS5415)).

Dispose of absorbed material in accordance with the regulations.

**6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Avoid dust formation. Avoid formation of aerosols. Provide exhaust ventilation if dust is formed.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated.

**Further information on storage conditions**

Product is hygroscopic.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****General protective and hygiene measures**

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Observe the usual precautions for handling chemicals.

**Respiratory protection**

Full mask with combination filter A2/P3; At intensive and longer exposition use self-contained breathing apparatus.

**Hand protection**

Protective gloves

Appropriate Material nitrile rubber - NBR

Material thickness 0.11 mm

Breakthrough time 480 min

**Eye protection**

Face shield; Safety glasses

**Body protection**

protective overalls

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Form** crystalline

**Colour** dark blue

**Odour threshold**

Remarks No data available

**pH value**

Value 3.0 to 3.8

Remarks acidic

Source Safety Data Sheet Supplier

**Melting point**

Value 100 °C

Source Safety Data Sheet Supplier

**Initial boiling point and boiling range**

Remarks No data available

Source Safety Data Sheet Supplier

**Flash point**

Remarks Not applicable

Source Safety Data Sheet Supplier

**Upper/lower flammability or explosive limits**

Remarks No data available

Source Safety Data Sheet Supplier

**Density**

Value 2.51 g/cm<sup>3</sup>

Source Safety Data Sheet Supplier

**Solubility in water**

Remarks No data available

Source Safety Data Sheet Supplier

**Ignition temperature**

Remarks No data available

Source Safety Data Sheet Supplier

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

No decomposition if stored and applied as directed.

**10.4. Conditions to avoid**

Heat. Protect from atmospheric moisture and water.

**10.5. Incompatible materials**

Alkaline metals

**10.6. Hazardous decomposition products**

In the event of fire the following can be released: copper oxides (CuOx), Hydrogen chloride (HCl)

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity****Cupri chloridum crist**

ATE	336	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****Copper(II) chloride dihydrate**

Species	rat	
LD50	336	mg/kg

**Acute dermal toxicity****Cupri chloridum crist**

ATE	1'224	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute dermal toxicity (Components)****Copper(II) chloride dihydrate**

Species	rat (male)	
LD50	> 2000	mg/kg

**Copper(II) chloride dihydrate**

Species	rat (female)	
LD50	1224	mg/kg

**Skin corrosion/irritation****Cupri chloridum crist**

evaluation	irritant
Source	Safety Data Sheet Supplier

**Serious eye damage/irritation****Cupri chloridum crist**

Species	rabbit
evaluation	irritant - risk of serious damage to eyes

**Sensitization****Cupri chloridum crist**

Remarks	No data available.
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Source Safety Data Sheet Supplier

**Experience in practice**

May be harmful by inhalation, ingestion, skin adsorption.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity****Cupri chloridum crist**

Species	carp (Cyprinus carpio)			
LC50	0.12	to	0.23	mg/l
Duration of exposure	96	h		
Source	Safety Data Sheet Supplier			

**Cupri chloridum crist**

Species	Bluegill (Lepomis macrochirus)			
LC50	0.9			mg/l
Duration of exposure	96	h		
Source	Safety Data Sheet Supplier			

**Cupri chloridum crist**

Species	Ictalurus punctatus			
NOEC	0.013			mg/l
Duration of exposure	60	d		

**Fish toxicity (Components)****Copper(II) chloride dihydrate**

Species	carp (Cyprinus carpio)			
LC50	0.12	to	0.23	mg/l
Duration of exposure	96	h		

**Copper(II) chloride dihydrate**

Species	Bluegill (Lepomis macrochirus)			
	0.9			mg/l
Duration of exposure	96	h		

**Copper(II) chloride dihydrate**

Species	Ictalurus punctatus			
NOEC	0.013			mg/l
Duration of exposure	60	d		

**12.2. Persistence and degradability****Ready degradability****Cupri chloridum crist**

Remarks	No data available.
Source	Safety Data Sheet Supplier

**12.3. Bioaccumulative potential****General information**

For this subsection there is no ecotoxicological data available on the product as such.

**12.4. Mobility in soil****General information**

For this subsection there is no ecotoxicological data available on the product as such.

**12.5. Results of PBT and vPvB assessment****General information**

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For this subsection there is no ecotoxicological data available on the product as such.

## 12.6. Other adverse effects

### General information

For this subsection there is no ecotoxicological data available on the product as such.

### General information / ecology

Very toxic for aquatic organisms.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods




#### Disposal recommendations for the product

Disposal in compliance with local and national regulations.

#### Disposal recommendations for packaging

Dispose of as unused product.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2802	2802	2802
14.2. UN proper shipping name	COPPER CHLORIDE	COPPER CHLORIDE	COPPER CHLORIDE
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 3

Remarks Classification according to Annex 4 VwVwS

## SECTION 16: Other information

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**Hazard statements listed in Chapter 3**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Irrit. 2	Skin irritation, Category 2

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.