

Trade name: Cupri sulfas pentahydr

Substance number: 063168

Version: 3 / CH

Date revised: 23.04.2019

Replaces Version: 2 / CH

Print date: 01.10.19

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

### **1.1. Product identifier**

Cupri sulfas pentahydr

Item No. 06316800

### **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)

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

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**

Warning

##### **Hazard statements**

H302

Harmful if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H410

Very toxic to aquatic life with long lasting effects.

##### **Precautionary statements \*\*\***

P264.1

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 Rinse mouth.  
 P501.3 Disposal in compliance with local and national regulations.

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

contains \*\*\* Copper sulfate pentahydrate

**SECTION 3: Composition/information on ingredients \*\*\*****Molecular weight**

Value	249.68	g/mol
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**Hazardous ingredients \*\*\*****Copper sulfate pentahydrate**

CAS No.	7758-99-8	
EINECS no.	231-847-6	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	Aquatic Acute 1	H400
	Aquatic Chronic 1	H410

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

Let plenty of water be drunk in small gulps. Summon a doctor immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Irritation of mucosa, Coughing, Shortness of breath, Vomiting, Diarrhoea, Death

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

Extinguishing measures to suit surroundings

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

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Sulfuroxides (SOx)

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

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Use self-contained breathing apparatus. Use personal protective clothing.

**Other information**

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

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

Avoid dust formation. Do not inhale dust. Avoid contact with skin, eyes and clothing. Ensure supply of fresh air.

**6.2. Environmental precautions**

Do not empty into drains.

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

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area.

**SECTION 7: Handling and storage****7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in a dry place.

**Hints on storage assembly**

Do not store together with: solvents

**Storage classes**

Storage class according to TRGS 510

13

Non- combustible solids

Storage category (Switzerland)

11/13

Other solid hazardous substances with hazardous classification/labelling

**Further information on storage conditions**

Keep container tightly closed.

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

Wash contaminated clothing before reuse. Wash hands and face after work. Preventative skin protection.

**Respiratory protection**

Breathing apparatus in the event of aerosol. Particle filter P2

**Hand protection**

Gloves

Appropriate Material

nitrile rubber - NBR

**Eye protection**

necessary

**Body protection**

protective overalls

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

Form

solid

Colour

blue

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**Odour** odourless

**pH value**

Value	3.5	to	4.5
Concentration/H <sub>2</sub> O	50	g/l	
Temperature	20	°C	

**Melting point**

Remarks Not applicable

**Flash point**

Value °C

Remarks Not applicable

**Vapour pressure**

Remarks Not applicable

**Density**

Value	2.29		g/cm <sup>3</sup>
Temperature	20	°C	

**Solubility in water**

Value	317		g/l
Temperature	20	°C	

**Decomposition temperature**

Value	88	to	245	°C
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## 9.2. Other information

**Bulk density**

Value	appr. 900	to	1200	kg/m <sup>3</sup>
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition if stored and applied as directed.

### 10.2. Chemical stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

Oxidising agents

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Reacts violently with: Strong oxidising agents, Magnesium

### 10.6. Hazardous decomposition products

In the event of fire the following can be released: sulphurous oxides (SO<sub>x</sub>)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

ATE	960	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### Acute oral toxicity (Components)

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**Copper sulfate pentahydrate**

Species	rat		
LD50		960	mg/kg

**Acute dermal toxicity (Components)****Copper sulfate pentahydrate**

Species	rat		
LD50	>	2000	mg/kg

**Skin corrosion/irritation**

evaluation	irritant
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**Serious eye damage/irritation**

evaluation	irritant
Remarks	risk

**Mutagenicity**

Remarks	negative
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**Experience in practice**

Irritates the mucous membrane. Irritation

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity**

Species	rainbow trout (Oncorhynchus mykiss)		
LC50		0.03	mg/l
Duration of exposure		96	h

**Fish toxicity (Components)****Copper sulfate pentahydrate**

Reference substance	Copper sulphate		
Species	rainbow trout (Oncorhynchus mykiss)		
LC50		0.11	mg/l

**Daphnia toxicity**

Species	Daphnia magna		
EC50		0.2	mg/l
Duration of exposure		48	h

**12.2. Persistence and degradability****Biodegradability**

Remarks	No data available.
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**12.6. Other adverse effects****General information / ecology**

Do not allow it to reach soil, ground water, water bodies or sewage system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

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**Disposal recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**SECTION 14: Transport information \*\*\***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	-		
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulfate pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulfate pentahydrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulfate pentahydrate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

**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

Identification number 141

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H302 Harmful if swallowed.  
H315 Causes skin irritation.

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H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very 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 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Irrit. 2	Eye irritation, Category 2
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.