

Trade name: Cupri sulfas ad us.vet.pulvis

Substance number: 063144

Version: 3 / CH

Date revised: 17.12.2018

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 ad us.vet.pulvis

Item No. 06314400

Substance / product identification

INCI COPPER SULFATE

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

Use of the substance/preparation

industry, Chemical for synthesis, food additive

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.

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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.
 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.
 P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

contains Copper sulphate

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Copper sulphate**

CAS No.	7758-98-7		
EINECS no.	231-847-6		
Registration no.	01-2119520566-40-XXXX		
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

Further ingredients**Silica, amorphous - Precipitated silica and silica gel**

CAS No.	112926-00-8		
EINECS no.	231-545-4		
Concentration	< 1		%
Advice: [4]			

Note

[4] Voluntary information

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

Adhere to personal protective measures when giving first aid. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. If the patient is likely to become unconscious, place and transport in stable sideways position. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a

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physician.

After ingestion

Do not induce vomiting. Summon a doctor immediately.

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

Nausea, Gastrointestinal complaints, Irritation of mucosa

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Treat symptomatically

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

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureSulfuroxides (SO_x)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Wear full protective suit.

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

Wear protective equipment. Keep away unprotected persons. Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Send in suitable containers for recovery or disposal. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

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 dust formation. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep in a cool place. Suitable materials: Polyethylene/Polypropylene.

Hints on storage assembly

Do not store together with foodstuffs. Do not store together with: Reducing agents

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water. Protect from light.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****Copper sulphate**

List	SUVA		
Type	MAK		
Value	0,1	mg/m ³	
Short term exposure limit	0,2	mg/m ³	
Pregnancy group: S; Status: 2017; Remarks: SSc; Metallrauch, LungeKT AN; NIOSH			

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Avoid contact with skin and eyes. Do not inhale dust/fumes/mist. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. At work do not eat, drink, smoke or take drugs.

Respiratory protection

Dust mask; Particle filter half mask, filter FFP2 - Norm DIN EN 149

Hand protection

Chemical resistant gloves

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Natural Latex		
Material thickness	>= 0.5	mm	
Breakthrough time	>= 8	h	

Eye protection

Tightly fitting safety glasses

Body protection

protective overalls

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

Form	Crystalline powder
Colour	blue
Odour	odourless
pH value	
Value	3 to 4.2
Concentration/H ₂ O	50 g/l
Melting point	
Value	560 °C

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Source Merck Index

Initial boiling point and boiling range

Remarks not determined

Flash pointValue °C
Remarks Not applicable**Vapour pressure**

Remarks Not applicable

DensityValue 2.286 g/cm³**Solubility in water**Value 220 g/l
Temperature 25 °C**Partition coefficient: n-octanol/water**

Remarks Not applicable

Ignition temperature

Remarks not determined

Decomposition temperatureValue > 560 °C
Remarks No decomposition if used as prescribed.**Viscosity**

Remarks Not applicable

9.2. Other information**Bulk density**

Value 1.1 to 1.3 kg/l

Other information

The product is not combustible. The product is not dangerous for explosions.

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. Sensitive to moisture. To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from atmospheric moisture and water. Protect from sun.

10.5. Incompatible materials

Development of toxic gases/vapours. Incompatible with alkaline substances . strong reducing agents, Reactions with alkalies and metals.

10.6. Hazardous decomposition productsToxic gases/vapours, sulphurous oxides (SO_x)**SECTION 11: Toxicological information**

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11.1. Information on toxicological effects

Acute oral toxicity

ATE	482	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)

Copper sulphate

Species	rat	
LD50	482	mg/kg
Method	OECD 401	

Acute dermal toxicity (Components)

Copper sulphate

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Skin corrosion/irritation (Components)

Copper sulphate

evaluation	irritant
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Serious eye damage/irritation (Components)

Copper sulphate

evaluation	irritant - risk of serious damage to eyes
Method	OECD 405

Sensitization (Components)

Copper sulphate

Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

Mutagenicity

Remarks	negative
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Carcinogenicity

Remarks	No evidence available on carcinogenicity.
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SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

Copper sulphate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	0.11	mg/l
Duration of exposure	96	h

Copper sulphate

Species	Fathead minnow (<i>Pimephales promelas</i>)	
LC50	193	µg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

Copper sulphate

Species	Daphnia magna	
EC50	0.02	mg/l
Duration of exposure	48	h

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Copper sulphate

Species	Daphnia		
LC50	7		µg/l
Duration of exposure	48	h	

12.2. Persistence and degradability**Biodegradability**

evaluation not degradable

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

Remarks Not applicable

12.6. Other adverse effects**General information / ecology**

Product is hazardous to water. Do not allow it to reach ground water, water bodies or sewage system.

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

EWC waste code	No not dispose with rubbish.
EWC waste code	Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

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	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 sulphate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper sulphate)
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 2
Remarks No data available.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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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.