

Trade name: Zinco-cuprica composita

Substance number: 216811

Version: 1 / CH

Date revised: 04.01.2017

Replaces Version: - / CH

Print date: 04.01.17

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

1.1. Product identifier

Zinco-cuprica composita

Item No. 21681100

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 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)

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

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501.3 Disposal in compliance with local and national regulations.

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

contains Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

SECTION 3: Composition/information on ingredients

Hazardous ingredients (Regulation (EC) No. 1272/2008)

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Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

CAS No.	7446-19-7		
EINECS no.	231-793-3		
Concentration		< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4	H302	
	Eye Dam. 1	H318	
	Aquatic Acute 1	H400	
	Aquatic Chronic 1	H410	

Concentration limits (Regulation (EC) No. 1272/2008)
M = 10

Copper sulfate pentahydrate

CAS No.	7758-99-8		
EINECS no.	231-847-6		
Concentration		< 1	%
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**Water**

CAS No.	7732-18-5		
EINECS no.	231-791-2		
Concentration		>= 95	%
Advice: [4]			

Ethanol

CAS No.	64-17-5		
EINECS no.	200-578-6		
Concentration		< 1	%
Advice: [4]			
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 2	H225	

Bornan-2-one

CAS No.	76-22-2		
EINECS no.	200-945-0		
Concentration		< 1	%
Advice: [4]			
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Sol. 2	H228	
	Acute Tox. 4	H332	
	STOT SE 2	H371	

Lungs; Route of exposure:
inhalative**Advice:**

[4] Voluntary information

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

If you feel unwell, seek medical advice (show the label where possible). Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

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

After ingestion

Rinse out mouth and give plenty of water to drink. By continuous complaints consult a physician.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not inhale vapours.

6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder). Send in suitable containers for recovery or disposal. Clean up affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

For personal protection see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 15 - 25 °C

Further information on storage conditions

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

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Ethanol

List	SUVA			
Type	MAK			
Value	960	mg/m ³	500	ppm(V)
Short term exposure limit	1920	mg/m ³	1000	ppm(V)
Pregnancy group: S; Status: 2014				

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

General industrial hygiene practice. Avoid contact with skin and eyes.

Respiratory protection

necessary; Provide adequate ventilation. Do not breathe vapours, dust or aerosol.

Hand protection

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 nitrile rubber - NBR

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

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

Form	liquid, clear
Colour	colourless
Odour	camphor-like
Flash point	
Value	°C
Remarks	Not applicable
Vapour pressure	
Remarks	Not applicable

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

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Oxidising agents

10.6. Hazardous decomposition products

sulphurous oxides (SO_x)

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	>	10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)

Copper sulfate pentahydrate

Species	rat		
LD50		960	mg/kg

Ethanol

Species	rat		
LD50		7060	mg/kg
Source	Toxicology and Applied Pharmacology. Vol. 16, Pg. 718, 1970.		

Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

Species	rat		
LD50		1260	mg/kg
Source	RTECS		

Bornan-2-one

Species	mouse		
LD50		1310 to 5000	mg/kg

Acute dermal toxicity (Components)

Copper sulfate pentahydrate

Species	rat		
LD50	>	2000	mg/kg

Bornan-2-one

Species	rabbit		
LD50	>	5000	mg/kg

Skin corrosion/irritation (Components)

Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

evaluation	slightly irritant
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Copper sulfate pentahydrate

evaluation	irritant
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Serious eye damage/irritation (Components)

Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

evaluation	irritant - risk of serious damage to eyes
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Copper sulfate pentahydrate

evaluation	strongly irritant
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Mutagenicity (Components)

Copper sulfate pentahydrate

Species	Salmonella typhimurium
Method	Ames test
Remarks	negative

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

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Copper sulfate pentahydrate

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

Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	0.1	mg/l
Duration of exposure	96	h

Bornan-2-one

LC50	35	mg/l
Duration of exposure	96	h

Algae toxicity (Components)**Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)**

Species	Scenedesmus quadricauda	
IC50	0.52	mg/l
Duration of exposure	5	d

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

Harmful to 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****14.1. UN number**

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Class	9
Label	9

14.4. Packing group

Packing group	III
Limited Quantity	5 I
Transport category	3
Tunnel restriction code	E

Marine transport IMDG/GGVSee**14.1. UN number**

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Class	9
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14.4. Packing group

Packing group	III
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Air transport ICAO/IATA**14.1. UN number**

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

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 WGK 3
(Germany)

Remarks Classification according to Annex 4 VwVwS

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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 Dam. 1	Serious eye damage, 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.