

Trade name: Zinco-cuprica comp conc sol 10/100

Substance number: 216801

Version: 2 / CH

Date revised: 04.01.2017

Replaces Version: 1 / CH

Print date: 04.01.17

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

1.1. Product identifier

Zinco-cuprica comp conc sol 10/100
Item No. 21680100

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 person responsible for this SDS sdb@haenseler.ch

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)

Eye Dam. 1	H318
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 ***

Danger

Hazard statements ***

H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements ***

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.
P310 Immediately call a POISON CENTER or doctor.
P391 Collect spillage.
P501.3 Disposal in compliance with local and national regulations.

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

CAS No.	7446-19-7				
EINECS no.	231-793-3				
Concentration	>=	3	<	10	%
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	<	6.4	%
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	>=	90			%
Advice: [4]					

Ethanol

CAS No.	64-17-5				
EINECS no.	200-578-6				
Concentration	>=	1	<	10	%
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

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Methanol

CAS No. 67-56-1

EINECS no. 200-659-6

Registration no. 01-2119433307-44-XXXX

Concentration < 1 %

Advice: [4]

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

Flam. Liq. 2 H225

Acute Tox. 3 H331

Acute Tox. 3 H311

Acute Tox. 3 H301

STOT SE 1 H370

Route of exposure: inhalative

Route of exposure: dermal

Route of exposure: oral

Eyes; Route of exposure: oral

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 1 H370 >= 10

STOT SE 2 H371 >= 3 < 10

Advice:

[4] Voluntary information

SECTION 4: First aid measures**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

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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

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	light blue
Odour	camphor-like
Flash point	
Value	°C
Remarks	Not applicable

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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 productssulphurous oxides (SO_x)**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)**

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evaluation slightly irritant

Copper sulfate pentahydrate

evaluation irritant

Serious eye damage/irritation (Components)**Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)**

evaluation irritant - risk of serious damage to eyes

Copper sulfate pentahydrate

evaluation strongly irritant

Mutagenicity (Components)**Copper sulfate pentahydrate**

Species Salmonella typhimurium

Method Ames test

Remarks negative

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****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**

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UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate))

14.3. Transport hazard class(es)

Class	9
Label	9

14.4. Packing group

Packing group	III
Limited Quantity	5 I
Transport category	3

14.5. Environmental hazards

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

14.3. Transport hazard class(es)

Class	9
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14.4. Packing group

Packing group	III
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14.5. Environmental hazards

Marine Pollutant

Air transport ICAO/IATA**14.1. UN number**

UN 3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate))

14.3. Transport hazard class(es)

Class	9
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14.4. Packing group

Packing group	III
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14.5. Environmental hazards

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
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Remarks	Classification according to Annex 4 VwVwS
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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

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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.