



Trade name: Zinci sulfas heptahydricus

Substance number: 068648

Version: 1 / CH

Date revised: 13.01.12

Replaces Version: - / CH

Date of printing: 20.08.12

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Zinci sulfas heptahydricus

Item-No. 06864800

### 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

## 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

Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

#### Classification in accordance with EC directives

Classification Xn, R22

Xi, R41

N, R50/53

### 2.2. Label elements

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

#### Hazard pictograms



#### Signal Word

Danger

#### Hazard statements

H302

Harmful if swallowed.

H318

Causes serious eye damage.

H410

Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P261.1

Avoid breathing dust.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P313 Get medical advice/attention.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P273 Avoid release to the environment.

**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Dangerous for the environment



Harmful

**R phrases**

22 Harmful if swallowed.  
 41 Risk of serious damage to eyes.  
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

22 Do not breathe dust.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 39 Wear eye/face protection.  
 46 If swallowed, seek medical advice immediately and show this container or label.  
 60 This material and its container must be disposed of as hazardous waste.  
 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Hazardous component(s) to be indicated on label**

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

**3. Composition/information on ingredients****Substance / product identification**

CAS-Nr. 7446-20-0

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

CAS No.	7446-19-7			
EINECS no.	231-793-3			
Concentration		>=	50	%
Classification	Xn, R22			
	Xi, R41			
	N, R50/53			

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

Acute Tox. 4	H302
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

**4. First aid measures**



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#### **4.1. Description of first aid measures**

##### **After inhalation**

Ensure supply of fresh air.

##### **After skin contact**

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

##### **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**

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

### **5. Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

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

The product is not combustible. In case of combustion evolution of dangerous gases possible. Sulphur oxides

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

##### **Other information**

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

### **6. Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not inhale dust.

#### **6.2. Environmental precautions**

Do not allow to enter drains.

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

To pick up dry. When picked up, treat material as prescribed under heading "Disposal". Clean up affected area.

### **7. Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

No special requirements.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

### **8. Exposure controls/personal protection**



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## 8.2. Exposure controls

### General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands and face after work. Preventative skin protection.

### Respiratory protection

Use breathing apparatus in dust/fumes/mist-laden atmosphere. Particle filter P2

### Hand protection

Not suitable: gloves of nitrile rubber - NBR

### Eye protection

necessary

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	solid			
<b>Colour</b>	colourless to white			
<b>Odour</b>	odourless			
<b>pH</b>				
Value	appr. 4	to	6	
Concentration/H <sub>2</sub> O	50	g/l		
Temperature	20	°C		
<b>Melting point</b>				
Value	100			°C
<b>Boiling point</b>				
Remarks	Not applicable			
<b>Flash point</b>				
Remarks	Not applicable			
<b>Vapour pressure</b>				
Remarks	Not applicable			
<b>Density</b>				
Value	1.97			g/cm <sup>3</sup>
Temperature	20	°C		
<b>Solubility in water</b>				
Value	965			g/l
Temperature	20	°C		
<b>Thermal decomposition</b>				
Value	39	to	280	°C
Remarks	Loss of crystal water.			
Value	-	to	600	°C

### 9.2. Other information

#### Bulk density

Value                      appr. 800                      to                      1000                      kg/m<sup>3</sup>

## 10. Stability and reactivity

### 10.4. Conditions to avoid

#### Thermal decomposition



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Value	39	to	280	°C
Remarks	Loss of crystal water.			
Value	-	to	600	°C

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

Species	rat		
LD50	1260		mg/kg

#### Experience in practice

Damage to the lungs possible.

#### Other information

Observe the usual precautions for handling chemicals.

## 12. Ecological information

### 12.1. Toxicity

#### Fish toxicity

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	0.43		mg/l
Duration of exposure	96	h	

### 12.6. Other adverse effects

#### General information / ecology

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

## 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.

## 14. Transport information

### Land transport ADR/RID

#### 14.1. UN number

UN 3077

#### 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

Danger releasing substance 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

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

### Marine transport IMDG/GGVSee

#### 14.1. UN number



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**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

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

**14.3. Transport hazard class(es)**

Class 9

**14.4. Packing group**

Packing group III

Environmental labelling ENVIRONMENTALLY HAZARDOUS

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

UN 3077

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

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

**14.3. Transport hazard class(es)**

Class 9

**14.4. Packing group**

Packing group III

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other regulations, restrictions and prohibition regulations**

Observe employment restrictions for young people.

Observe employment restrictions for child bearing mothers and nursing mothers.

**16. Other information****R-phrases listed in chapter 3**

22	Harmful if swallowed.
41	Risk of serious damage to eyes.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Hazard statements listed in chapter 3**

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**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.