

Trade name: Sulfur ad usum externum

Substance number: 068008

Version: 4 / CH

Date revised: 01.03.2021

Replaces Version: 3 / CH

Print date: 01.03.21

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

### **1.1. Product identifier**

Sulfur ad usum externum

Item No. 06800800

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

#### **Use of the substance/preparation**

Manufacture of pharmaceutical products, Active pharmaceutical substance

### **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)

Skin Irrit. 2 H315

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**

H315 Causes skin irritation.

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

P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.

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**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients \*\*\*****Sulfur**

CAS No.	7704-34-9	
EINECS no.	231-722-6	
Registration no.	01-2119487295-27-XXXX	
Concentration	>= 100	%
Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315

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

Ensure supply of fresh air. If the patient is likely to become unconscious, place and transport in stable sideways position. Breathing with the help of a ventilator bag or ventilator. Summon a doctor immediately.

**After skin contact**

Remove contaminated, soaked clothing immediately and dispose of safely. 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 physician.

**After ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

The following symptoms may occur: Irritation of respiratory organs, Shortness of breath, Headache, Dizziness, Convulsions, Diarrhoea, Cardiovascular disturbance, CNS Disturbance, Unconsciousness

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

If swallowed, flush stomach

**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 combustible. In case of combustion, evolution of health hazardous partially burned gases. Sulphur oxides

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

Use self-contained breathing apparatus.

**SECTION 6: Accidental release measures**

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

Avoid dust formation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/aerosol. Keep away sources of ignition.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Suppress gases/vapours/mists with water spray jet.

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

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. Dust deposits that cannot be avoided must be taken up regularly. Do not clean dust-covered objects and floors while dry but clean thoroughly with plenty of water.

**Advice on protection against fire and explosion**

Substance/product ignites spontaneously. Dust can form an explosive mixture with air. Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in a cool place. Do not use steel containers. Do not use containers, lines etc. made of copper or copper alloys.

**Hints on storage assembly**

Do not store together with: Alkalis, Oxidising agents

**Storage classes**

Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous
Storage class according to TRGS 510	4.1B	Flammable hazardous solids

**Further information on storage conditions**

Keep container tightly closed. Keep container tightly closed, cool and dry. Protect from atmospheric moisture and water.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

**General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Use barrier skin cream. Avoid contact with skin and eyes. At work do not eat, drink, smoke or take drugs. Do not inhale dust/fumes/aerosols.

**Respiratory protection**

Breathing apparatus in the event of aerosol, mist or fume formation. Particle filter P2; Breathing apparatus in the event of gases. Gas filter class E.

**Hand protection**

Protective gloves  
Appropriate Material                      nitrile

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Material thickness  $\geq$  8 h  
Breakthrough time

**Eye protection**

Tightly fitting safety glasses

**Body protection**

impermeable protective overalls

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

<b>Form</b>	crystalline			
<b>Colour</b>	brownish yellow			
<b>Odour</b>	Sulphur-like			
<b>pH value ***</b>				
Remarks	Not applicable			
<b>Melting point</b>				
Value	119			°C
Method	DIN 51761			
<b>Initial boiling point and boiling range</b>				
Value	445			°C
Method	DIN 51761			
<b>Flash point</b>				
Value	168			°C
Method	DIN 51755			
<b>Vapour pressure ***</b>				
Remarks	Not applicable			
<b>Density</b>				
Value	1.8	to	2.06	g/cm <sup>3</sup>
Temperature	20			°C
<b>Solubility in water</b>				
Value	0.00000			g/l
	5			
Remarks	insoluble			
<b>Ignition temperature</b>				
Value	260			°C
<b>Viscosity</b>				
Remarks	Not applicable			
<b>Explosive properties</b>				
evaluation	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**

Oxidising agents

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**10.4. Conditions to avoid**

Heat. Flames. Sparks

**10.5. Incompatible materials**

Oxidising agents, Potassium permanganate

**10.6. Hazardous decomposition products**sulphurous oxides (SO<sub>x</sub>)**Other information**

Danger of dust explosion

**SECTION 11: Toxicological information \*\*\*****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	2'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****Sulfur**

Species	rat		
LD50	>	5000	mg/kg
Source	IUCLID		

**Sulfur**

Species	rat		
LC50		2000	mg/kg

**Acute dermal toxicity (Components)****Sulfur**

Species	rabbit		
LD50	>	2000	mg/kg
Source	IUCLID		

**Acute inhalative toxicity (Components)****Sulfur**

Species	rat		
LC50		9.23	mg/l
Duration of exposure		4	h
Source	IUCLID		

**Sulfur**

Species	rat		
LC50		5430	mg/m <sup>3</sup>

**Skin corrosion/irritation (Components)****Sulfur**

evaluation	irritant
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**Serious eye damage/irritation (Components)****Sulfur**

evaluation	slightly irritant
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**Sensitization (Components)****Sulfur**

evaluation	non-sensitizing
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**Mutagenicity (Components)**

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**Sulfur**

Species evaluation	Salmonella typhimurium
Method	No experimental information on genotoxicity in vitro available.
	Ames test

**Reproduction toxicity (Components)****Sulfur**

Remarks	No data available
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**Carcinogenicity (Components)****Sulfur**

Remarks	No data available
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**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****Sulfur**

Species	zebra fish (Brachydanio rerio)	
LC50	866	mg/l
Duration of exposure	96	h
Source	IUCLID	

**Sulfur**

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	180	mg/l

**Daphnia toxicity (Components)****Sulfur**

Species	Daphnia magna	
EC50	< 1000	mg/l

**Sulfur**

Species	Daphnia magna	
EC0	> 10000	mg/l
Duration of exposure	24	h

**Sulfur**

Species	Daphnia magna	
EC50	> 5000	mg/l

**Bacteria toxicity (Components)****Sulfur**

Species	activated sludge	
EC50	1900	mg/l
Duration of exposure	3	h
Source	ISO 8192	

**12.2. Persistence and degradability****General information**

No data available

**12.3. Bioaccumulative potential****General information**

No data available

**12.4. Mobility in soil****General information**

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No data available

**12.5. Results of PBT and vPvB assessment****Evaluation of persistence and bioaccumulation potential (Components)****Sulfur**

The Substance doesn't meets PBT/vPvB-criteria

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

No data available

**General information / ecology**

Innocuous to aquatic organisms.

**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.

In accordance with regulations for special waste, must be taken to an authorised special waste disposal site or incineration plant.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

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

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	E		
14.1. UN number	1350	1350	1350
14.2. UN proper shipping name	SULPHUR	SULPHUR	SULPHUR
14.3. Transport hazard class(es)	4.1	4.1	4.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance**

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**or mixture****Water Hazard Class (Germany) \*\*\***

Water Hazard Class (Germany) Not water hazardous

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

**National regulations Switzerland**Swiss Toxicity Class 5  
SFOPH T no. G-54929  
EDP no. G-54929**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H315 Causes skin irritation.

**CLP categories listed in Chapter 3**

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.