

Trade name: Sulfur sublimatum purum

Substance number: 068024

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**

Sulfur sublimatum purum

Item No. 06802400

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

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

Chemical

### **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.  |

Trade name: Sulfur sublimatum purum

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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                                  | >= 50                 | %    |
| Classification (Regulation (EC) No. 1272/2008) |                       |      |
|  | Skin Irrit. 2         | H315 |

## **SECTION 4: First aid measures**

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

#### **General information**

In case of persistent symptoms consult doctor. Remove contaminated, soaked clothing immediately and dispose of safely.

#### **After inhalation**

Remove affected person from danger area. Remove to fresh air, keep patient warm and at rest.

#### **After skin contact**

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists. After contact with molten product cool quickly with cold water.

#### **After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

#### **After ingestion**

Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting. Never give anything by mouth to an unconscious person. Take medical treatment.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water spray jet, Dry powder, Alcohol-resistant foam, Carbon dioxide

#### **Non suitable extinguishing media**

Full water jet

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

In the event of fire the following can be released: Sulfuroxides (SO<sub>x</sub>); Hydrogen sulfide (H<sub>2</sub>S)

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

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

Use self-contained breathing apparatus.

#### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

## **SECTION 6: Accidental release measures**

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

Refer to protective measures listed in Sections 7 and 8. Ensure adequate ventilation. Avoid dust

Trade name: Sulfur sublimatum purum

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Date revised: 17.12.2018

Replaces Version: 2 / CH

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formation. Keep away sources of ignition.

## 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid the formation and deposition of dust. Provide good ventilation of working area (local exhaust ventilation if necessary).

#### Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take action to prevent static discharges. Keep away from sources of heat and ignition.

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

#### Recommended storage temperature

|       |    |
|-------|----|
| Value | 11 |
|-------|----|

#### Requirements for storage rooms and vessels

Do not use containers, lines etc. made of copper or copper alloys. Do not use steel containers. Store product in closed containers.

#### Hints on storage assembly

Do not store with oxidizing agents. Do not store with alkalies.

#### Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place, open and handle carefully.

## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Hold eye wash fountain available. Do not breathe dust.

#### Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2; Short term: filter apparatus, Filter P3

#### Hand protection

|                      |                 |     |  |
|----------------------|-----------------|-----|--|
| Protective gloves    |                 |     |  |
| Appropriate Material | Polychloroprene |     |  |
| Material thickness   | 0.75            | mm  |  |
| Breakthrough time    | > 480           | min |  |
| Appropriate Material | rubber          |     |  |
| Material thickness   | 0.75            | mm  |  |
| Breakthrough time    | > 480           | min |  |

#### Eye protection

Tightly fitting safety glasses

#### Body protection

Clothing as usual in the chemical industry.

Trade name: Sulfur sublimatum purum

Substance number: 068024

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

## **SECTION 9: Physical and chemical properties**

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

|  |   |                   |        |
|--|---|-------------------|--------|
| <b>Form</b>                                    | solid                                   |                   |        |
| <b>Colour</b>                                  | light yellow                            |                   |        |
| <b>Odour</b>                                   | Sulphur-like                            |                   |        |
| <b>Melting point</b>                           |   |                   |        |
| Value  | 113                                     | °C                |        |
| <b>Initial boiling point and boiling range</b> |   |                   |        |
| Value  | 444                                     | °C                |        |
| <b>Flash point</b>                             |   |                   |        |
| Value  | 168                                     | °C                |        |
| <b>Vapour pressure</b>                         |   |                   |        |
| Value  | < 0.1                                   | hPa               |        |
| Temperature                                    | 20                                      | °C                |        |
| <b>Density</b>                                 |   |                   |        |
| Value  | 2.07                                    | g/cm <sup>3</sup> |        |
| Temperature                                    | 15                                      | °C                |        |
| <b>Solubility in water</b>                     |   |                   |        |
| Remarks  | insoluble                               |                   |        |
| <b>Ignition temperature</b>                    |   |                   |        |
| Value  | 235                                     | to                | 260 °C |
| <b>Decomposition temperature</b>               |   |                   |        |
| Remarks  | No decomposition if used as prescribed. |                   |        |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

### **10.2. Chemical stability**

Protect from heat/overheating.

### **10.3. Possibility of hazardous reactions**

Possible incompatibility with materials listed under section 10.5.

### **10.4. Conditions to avoid**

Heat

### **10.5. Incompatible materials**

Alkaline metals, Ammonia, Explosive reactions with oxidising agents such as potassium chlorate and/or peroxides. Sodium hypochlorite, calcium silicide, Iodine, Potassium permanganate, nitrates, Nitrites, lithium tetrahydroaluminate, Sodium hypochlorite, Oxidising agents, Alkalis, Metals

### **10.6. Hazardous decomposition products**

sulphurous oxides (SO<sub>x</sub>), Hydrogen sulfide (H<sub>2</sub>S)

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity (Components)**

Trade name: Sulfur sublimatum purum

Substance number: 068024

Version: 3 / CH

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Replaces Version: 2 / CH

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**Sulfur**

|         |        |      |       |
|---------|--------|------|-------|
| Species | rat    |      |       |
| LD50    | >      | 5000 | mg/kg |
| Source  | IUCLID |      |       |

**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 |      |      |

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

|            |          |
|------------|----------|
| evaluation | irritant |
|------------|----------|

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

|            |                   |
|------------|-------------------|
| evaluation | slightly irritant |
|------------|-------------------|

**Sensitization (Components)****Sulfur**

|            |                 |
|------------|-----------------|
| evaluation | non-sensitizing |
|------------|-----------------|

**Mutagenicity (Components)****Sulfur**

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

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

|         |                   |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

**Carcinogenicity (Components)****Sulfur**

|         |                   |
|---------|-------------------|
| Remarks | No data available |
|---------|-------------------|

**Experience in practice**

Inhalation of dusts may irritate the respiratory tract.

**Other information**

Observe the usual precautions for handling chemicals.

**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    |

Trade name: Sulfur sublimatum purum

Substance number: 068024

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

Source IUCLID

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

|         |               |      |
|---------|---------------|------|
| Species | Daphnia magna |      |
| EC50    | < 1000        | mg/l |

**Sulfur**

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

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

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

**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 / ecology**

Do not discharge product unmonitored into the environment.

**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**

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

**SECTION 14: Transport information**

|                 | Land transport ADR/RID | Marine transport IMDG/GGVSee  | Air transport ICAO/IATA   |
|-----------------|------------------------|---|---|
| 14.1. UN number | Non-dangerous goods    | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

**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 1 |
|------------------------------|-------|

|         |   |
|---------|---|
| Remarks | Classification according to Annex 4 VwVwS |
|---------|---|

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Substance number: 068024

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Replaces Version: 2 / CH

Date revised: 17.12.2018

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## **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.