

Trade name: Aluminium sulfas crist

Substance number: 060848

Version: 3 / CH

Date revised: 28.10.2020

Replaces Version: 2 / CH

Print date: 28.10.20

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

### **1.1. Product identifier**

Aluminium sulfas crist

Item No. 06084800

### **Substance / product identification \*\*\***

REACH Registry No. 01-2119531538-36-xxxx

### **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)

Eye Dam. 1 H318

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.

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

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

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P310 lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor.

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

contains \*\*\* Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)

**2.3. Other hazards**

The product contains no PBT or vPvB substances.

**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients \*\*\*****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

CAS No.	16828-12-9	
EINECS no.	605-512-3	
Registration no.	01-2119531538-36-XXXX	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)	Eye Dam. 1	H318

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

Remove affected person from danger area. 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**

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

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

Nausea, Vomiting

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

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

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

**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>)

**5.3. Advice for firefighters**

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**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear protective clothing.

**Other information**

Suppress vapours with water spray jet. 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**

Ensure adequate ventilation. Avoid dust formation.

**6.2. Environmental precautions**

Do not empty into drains. Advise water authority if spillage has entered water course or drainage system.

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

Pick up mechanically. Avoid raising dust. Dispose of absorbed material in accordance with the regulations.

**6.4. Reference to other sections**

Information regarding waste disposal, see Section 13.

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

Take care when re-opening containers. Transfer and handle in enclosed systems is recommended.

**Advice on protection against fire and explosion**

The product is not combustible. No special measures required.

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

Provide acid-resistant floor. Keep in a cool place. Keep in a dry place.

**Hints on storage assembly**

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

**Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	8	Caustic and corrosive substances

**Further information on storage conditions**

Keep container tightly closed and dry. Product is hygroscopic. Protect from atmospheric moisture and water.

**SECTION 8: Exposure controls/personal protection \*\*\*****8.2. Exposure controls****General protective and hygiene measures**

Avoid contact with skin and eyes. Do not breathe dust. Remove contaminated, soaked clothing immediately and dispose of safely. At work do not eat, drink, smoke or take drugs.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Short term: filter apparatus, combination filter BE-P2

**Hand protection**

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Gloves (acid-resistant)  
 Appropriate Material rubber  
 Breakthrough time > 480 min  
 Appropriate Material viton  
 Breakthrough time > 480 min

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Light protective clothing

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

**Form** solid  
**Colour** colourless  
**Odour** odourless  
**pH value**  
 Value appr. 3  
 Concentration/H<sub>2</sub>O 10 g/l  
**Melting point**  
 Value 650 °C  
**Initial boiling point and boiling range**  
 Remarks No data available  
**Flash point**  
 Remarks Not applicable  
**Upper/lower flammability or explosive limits**  
 Remarks Not applicable  
**Vapour pressure**  
 Remarks Not applicable  
**Density**  
 Value 1.7 g/l  
**Solubility in water**  
 Value 629 g/l  
**Partition coefficient: n-octanol/water**  
 Reference substance Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)  
**Decomposition temperature**  
 Value > 400 °C

**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**

No decomposition if stored and applied as directed.

**10.4. Conditions to avoid**

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Protect from frost. Keep away from sources of heat and ignition. Protect from direct sunlight.

**10.5. Incompatible materials**

Bases, Oxidising agents

**10.6. Hazardous decomposition products**sulphurous oxides (SO<sub>x</sub>)**SECTION 11: Toxicological information \*\*\*****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

Species

rat

LD50

6207

mg/kg

**Serious eye damage/irritation (Components)****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

evaluation

irritant - risk of serious damage to eyes

**Mutagenicity (Components)****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

evaluation

Based on available data, the classification criteria are not met.

**Reproduction toxicity (Components)****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

evaluation

Based on available data, the classification criteria are not met.

**Carcinogenicity (Components)****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

evaluation

Based on available data, the classification criteria are not met.

**Other information**

The toxicological data are those of the pure product.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**

Species

Gambusia affinis

LC50

37

mg/l

**12.2. Persistence and degradability****Biodegradability**

Remarks

Elimination from water possible by precipitation or flocculation.

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Reference substance

Aluminum sulfate (Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>) hydrate (1:14)**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

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EWC waste code 16 03 03\* inorganic wastes containing dangerous substances  
Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.	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 WGK 3  
(Germany)

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

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

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

H318 Causes serious eye damage.

**CLP categories listed in Chapter 3**

Eye Dam. 1 Serious eye damage, Category 1

**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.