

Trade name: Alumen crist

Substance number: 060680

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

Alumen crist

Item No. 06068000

Registration no.

Registration no. 01-2119960162-44

Substance / product identification

CAS-No. 7784-24-9

EINECS-No. 233-141-3

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

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

Chemical characterization

Single substance

Molecular weight

Value 474.39 g/mol

Further ingredients

Aluminium potassium bis(sulphate) Dodecahydrate

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EINECS no. 233-141-3

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Concentration >= 95 %

Advice: [4]

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Note

[4] Voluntary information

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

Ensure supply of fresh air.

After skin contact

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

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Let plenty of water be drunk in small gulps. In the event of symptoms take medical treatment.

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 mixtureThe product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Sulfuroxides (SO_x)**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.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Do not inhale dust.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

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

No special measures necessary if stored and handled as prescribed.

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

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Keep in a dry place.

Further information on storage conditions

Keep container tightly closed.

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

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands and face before breaks and after work.

Respiratory protection

Breathing apparatus in the event of aerosol.

Hand protection

Gloves

Appropriate Material	nitrile rubber - NBR
Material thickness	0.11 mm
Breakthrough time	> 480 min

Eye protection

necessary

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

Form	solid		
Colour	white		
Odour	odourless		
pH value			
Value	3.5	to	5.0
Concentration/H ₂ O	100	g/l	
Temperature	20	°C	
Melting point			
Value	92.5		°C
Initial boiling point and boiling range			
Remarks	Not applicable		
Flash point			
Remarks	Not applicable		
Density			
Value	1.75		g/cm ³
Temperature	20	°C	
Solubility in water			
Value	appr. 120		g/l
Temperature	20	°C	
Decomposition temperature			
Value	> 400		°C

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

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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

Heat

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition productssulphurous oxides (SO_x)**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Aluminium potassium bis(sulphate) Dodecahydrate**

Species	mouse	
LD50	> 2000	mg/kg
Method	Value taken from the literature	

Aluminium potassium bis(sulphate) Dodecahydrate

Species	mouse	
NOAEL	8160	mg/kg
Method	Value taken from the literature	

Acute dermal toxicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species	mouse	
LD50	> 2000	mg/kg
Source	Literature value	

Aluminium potassium bis(sulphate) Dodecahydrate

Species	mouse	
NOAEL	> 100000	mg/kg
Method	Value taken from the literature	

Acute inhalative toxicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species	mouse	
NOEL	> 5	mg/l
Method	Value taken from the literature	

Skin corrosion/irritation (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species	rabbit	
Method	EPA	
Remarks	No effect of irritation known.	
Source	Literature value	

Serious eye damage/irritation (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species	rabbit	
Method	OECD 405	
Remarks	None	

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Source Literature value

Sensitization (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species mouse
 Method EPA
 Remarks No sensitisation effect known.
 Source Literature value

Mutagenicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species hamster
 Method OECD 471
 Remarks negative

Reproduction toxicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Route of exposure oral
 Species rat
 Dose 31 mg/kg
 Source Literature value
 Source OECD 416

Carcinogenicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Remarks No evidence available on carcinogenicity.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Aluminium potassium bis(sulphate) Dodecahydrate**

Species Fathead minnow (*Pimephales promelas*)
 LC50 110 mg/l
 Duration of exposure 96 h
 Source Literature value

Daphnia toxicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species *Daphnia magna*
 EC50 206 mg/l
 Duration of exposure 16 h
 Source Literature value

Aluminium potassium bis(sulphate) Dodecahydrate

Species *Ceriodaphnia spec*
 NOEC 21.54 mg/l
 Duration of exposure 7 d
 Source Literature value

Algae toxicity (Components)**Aluminium potassium bis(sulphate) Dodecahydrate**

Species *Desmodesmus subspicatus*
 EC50 133.3 mg/l
 Duration of exposure 72 h

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Source

Literature value

12.2. Persistence and degradability**Biodegradability**

Remarks

Not applicable.

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

Ecological injuries are not known or expected under normal use.

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

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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 3

Remarks Classification according to Annex 4 VwVwS

SECTION 16: Other information**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.