



Trade name: Ammonii sulfas crist

Substance number: 061096

Version: 1 / CH

Date revised: 27.02.12

Replaces Version: - / CH

Date of printing: 01.10.12

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

1.1. Product identifier

Ammonii sulfas crist

Item-No. 06109600

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

Hänseler AG
 Industriestrasse 35
 9101 Herisau
 Telephone no. 0041 (0)71 353 58 58
 E-mail address of person responsible for this SDS sdb@haenseler.ch

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.2. Label elements

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

The product does not require a hazard warning label in accordance with EC Directives.

2.3. Other hazards

No special hazards have to be mentioned.

3. Composition/information on ingredients

Substance / product identification

CAS-Nr. 7783-20-2

EINECS-Nr. 231-984-1

Further hazardous ingredients

epsilon-Caprolactam

CAS No. 105-60-2

EINECS no. 203-313-2

Concentration < 0.5 %

Classification Xn, R20/22

Xi, R36/37/38

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

Acute Tox. 4 H332

Acute Tox. 4 H302

Eye Irrit. 2 H319

STOT SE 3 H335

Skin Irrit. 2 H315



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4. First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment. If decomposition products are inhaled, remove the affected person to a source of fresh air and keep him calm. Provide medical aid.

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

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

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

Risk of pulmonary oedema

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Dry powder, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Ammonia (NH₃)

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Do not discharge into surface waters/groundwater. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

For tall amounts: Take up mechanically and collect in suitable container for disposal. Pick up mechanically. Rinse away rest with water.

6.4. Reference to other sections

Information regarding personal protective measures see, chapter 8. Information regarding Waste Disposal, see chapter 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities



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Hints on storage assembly

Do not store together with: Alkalies, Nitrites

Further information on storage conditions

Protect from atmospheric moisture and water.

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

Observe the usual precautions when handling chemicals. Wash thoroughly after work. Use barrier skin cream.

Respiratory protection

Breathing apparatus in the event of aerosol. Breathing apparatus in the event of vapours. Particle filter half mask, filter P3 - Norm NF EN 149

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile rubber - NBR		
Material thickness	0.4	mm	
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Appropriate Material	PVC		
Material thickness	0.7	mm	

Eye protection

Safety glasses with side protection shield

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

Form	crystalline		
Colour	white		
Odour	odourless		
pH			
Value	appr. 5		
Concentration/H ₂ O	100	g/l	
Temperature	20	°C	
Melting point			
Value	appr. 350		°C
Boiling point			
Remarks	Not determined		
Flash point			
Remarks	non flammable		
Vapour pressure			
Value	0.00000		hPa
	01		
Temperature	25	°C	
Source	Literature value		
Density			
Value	1.766		g/cm ³
Temperature	20	°C	



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Solubility in water

Value	764		g/l
Temperature	20	°C	
Value	843		g/l
Temperature	50	°C	

Ignition temperature

Remarks Not applicable

Viscosity

dynamic

9.2. Other information**Bulk density**

Value	1000		kg/m ³
Temperature	20	°C	

10. Stability and reactivity**10.5. Incompatible materials**

Evolution of ammonia under influence of alkalis. Reactions with alkalis. Nitrites

10.6. Hazardous decomposition products

Ammonia

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

Species	rat		
LD50	4250		mg/kg
method	BASF-test		

Acute dermal toxicity

Species	rat		
LD50	> 2000		mg/kg
method	Value taken from the literature		

Skin corrosion/irritation

Species	rabbit		
valuation	non-irritant		
Remarks	No effect of irritation known.		

Serious eye damage/irritation

Species	rabbit		
valuation	non-irritant		
Remarks	No effect of irritation known		

Sensitization

Remarks No sensitisation effect known.

12. Ecological information**12.1. Toxicity****Fish toxicity**

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	53		mg/l



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Duration of exposure 96 h

Daphnia toxicity

Species	Ceriodaphnia spec	
EC50	121.7	mg/l
Duration of exposure	48	h

Algae toxicity

Species	Chlorella vulgaris	
EC50	2700	mg/l
Duration of exposure	18	d
Remarks	The details of the toxic effect relate to the nominal concentration.	

Bacteria toxicity

Species	activated sludge	
EC20	appr. 1050	mg/l
Duration of exposure	0.5	h
method	OECD 209	

12.2. Persistence and degradability**Biodegradability**

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

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.

14. Transport information**Land transport ADR/RID**

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Ger.)**

Water Hazard Class (Ger.)	WGK 1
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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.