

Trade name: AMMONIUMCHLORID AQ. 23%

Substance number: 337786

Version: 1 / CH

Date revised: 24.10.2023

Replaces Version: - / CH

Print date: 24.10.23

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

1.1. Product identifier

AMMONIUMCHLORID AQ. 23%

Item No. 33778600

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 Irrit. 2 H319

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

H319 Causes serious eye irritation.

Precautionary statements

P264.1 Wash hands thoroughly after handling.

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 lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target

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organisms.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

ammonium chloride

CAS No.	12125-02-9			
EINECS no.	235-186-4			
Registration no.	01-2119487950-27			
Concentration	>= 10	<	25	%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302	
	Eye Irrit. 2		H319	

ATE	oral	1'410	mg/kg
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Further ingredients

water

CAS No.	7732-18-5			
EINECS no.	231-791-2			
Concentration		>=	50	%
Advice: [4]				

Note

[4] Voluntary information

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if symptoms occur.

After eye contact

Remove contact lenses. In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

The product is not combustible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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Use self-contained breathing apparatus. Use personal protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Wear protective equipment

6.2. Environmental precautions

Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in application area. Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable materials: Polyethylene. plastic materials

Storage classes

Storage class according to TRGS 510	12	Non-combustible liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

Further information on storage conditions

Keep only in the original container, tightly closed, in a well ventilated place. Store in a dry place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

ammonium chloride

List	SUVA	
Type	MAK	
Value	3	mg/m ³

Remarks: Auge & OAW

Derived No/Minimal Effect Levels (DNEL/DMEL)

ammonium chloride

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43.97	mg/m ³

Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	128.9	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	9.4	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	55.2	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Chronic effects	
Concentration	55.2	mg/kg

Predicted No Effect Concentration (PNEC)

ammonium chloride

Type of value	PNEC	
Type	Freshwater	
Concentration	0.25	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0.025	mg/l

Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.43	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0.9	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0.09	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	50.7	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	13.1	mg/l

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8.2. Exposure controls

General protective and hygiene measures

Do not eat or drink during work time. Keep away from food-stuffs, beverages and feed-stocks. Hold eye wash fountain available. Observe the usual precautions for handling chemicals. Wash hands before breaks and after work.

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

Boiling point or initial boiling point and boiling range

Remarks not determined

Flash point

Value °C

Remarks Not applicable

Vapour pressure

Remarks not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactions with strong acids.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

aluminium (Al)

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE 6'103.89 mg/kg
61

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)

ammonium chloride

Species rat
LD50 1650 mg/kg
Remarks Harmful if swallowed.

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ammonium chloride

Species	rat		
LD50		1410	mg/kg
Remarks	Harmful if swallowed.		

Acute dermal toxicity (Components)**ammonium chloride**

Species	rat		
LD50	>	2000	mg/kg
Remarks	Test conducted with a similar formulation.		

Acute inhalative toxicity (Components)**ammonium chloride**

Remarks	Not applicable
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Skin corrosion/irritation (Components)**ammonium chloride**

Species	rabbit
evaluation	irritant
Method	Draize method

Serious eye damage/irritation (Components)**ammonium chloride**

Species	rabbit
evaluation	irritant

Sensitization (Components)**ammonium chloride**

Remarks	No sensitisation effect known.
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Subacute, subchronic, chronic toxicity (Components)**ammonium chloride**

Remarks	No data available.
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Mutagenicity (Components)**ammonium chloride**

evaluation	Not considered mutagenic based on several in vitro and in vivo studies.
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Reproduction toxicity (Components)**ammonium chloride**

Remarks	Indications of toxic effects are available from reproduction studies in animals.
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Carcinogenicity (Components)**ammonium chloride**

Remarks	No data available.
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Specific Target Organ Toxicity (STOT) (Components)**ammonium chloride**

Remarks	Not applicable
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11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

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12.1. Toxicity

Fish toxicity (Components)

ammonium chloride

Species	carp (<i>Cyprinus carpio</i>)	
LC50	209	mg/l
Duration of exposure	96	h

ammonium chloride

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	3.98	mg/l
Duration of exposure	96	h

ammonium chloride

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
NOEC	57	mg/l
Duration of exposure	96	h

ammonium chloride

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	42.91	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

ammonium chloride

Species	Daphnia magna	
LC50	161	mg/l
Duration of exposure	48	h

ammonium chloride

Species	Daphnia magna	
NOEC	0.1	mg/l
Duration of exposure	216	h

ammonium chloride

Species	Daphnia magna	
EC50	136.6	mg/l
Duration of exposure	48	h

ammonium chloride

Species	Ceriodaphnia spec	
EC50	98.5	mg/l
Duration of exposure	48	h

Algae toxicity (Components)

ammonium chloride

Species	Chlorella vulgaris	
EC50	1300	mg/l
Duration of exposure	5	d
Remarks	Test conducted with a similar formulation.	

ammonium chloride

Species	Chlorella vulgaris	
EC50	2700	mg/l
Duration of exposure	18	d
Remarks	Test conducted with a similar formulation.	

Bacteria toxicity (Components)

ammonium chloride

Species	activated sludge	
EC20	appr. 850	mg/l
Method	OECD 209	

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12.2. Persistence and degradability**Biodegradability (Components)****ammonium chloride**

Remarks

Inorganic product, cannot be eliminated from the water by biological purification processes.

12.3. Bioaccumulative potential**General information**

No data available

Octanol/water partition coefficient (log Pow) (Components)**ammonium chloride**

log Pow

-4.37

12.4. Mobility in soil**General information**

No data available

Mobility in soil (Components)**ammonium chloride**

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	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**

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

Water Hazard Class (Germany) WGK 1

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

SECTION 16: Other information**Hazard statements listed in Chapter 3**H302 Harmful if swallowed.
H319 Causes serious eye irritation.**CLP categories listed in Chapter 3**Acute Tox. 4 Acute toxicity, Category 4
Eye Irrit. 2 Eye 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.