

Trade name: Aluminii chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

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

1.1. Product identifier

Aluminii chloridum hexahydr

Item No. 06074400

Substance / product identification

CAS-No. 7784-13-6

EINECS-No. 231-208-1

REACH Registry No. 01-2119459371-39

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 Corr. 1B H314

Eye Dam. 1 H318

EUH071

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 ***

H314

Causes severe skin burns and eye damage.

Trade name: Aluminium chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

EUH071 Corrosive to the respiratory tract.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.
 P501.3 Disposal in compliance with local and national regulations.

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

contains *** Aluminium chloride hexahydrate

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**Molecular weight**

| | | |
|-------|-------|-------|
| Value | 241.4 | g/mol |
|-------|-------|-------|

Hazardous ingredients**Aluminium chloride hexahydrate**

| | | |
|--|------------------------|--------|
| CAS No. | 7784-13-6 | |
| EINECS no. | 616-520-1 | |
| Registration no. | 01-21194559371-39-XXXX | |
| Concentration | >= 50 | % |
| Classification (Regulation (EC) No. 1272/2008) | Skin Corr. 1B | H314 |
| | Eye Dam. 1 | H318 |
| | | EUH071 |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Remove to fresh air, keep patient warm and at rest. Take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if symptoms occur.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately.

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

Trade name: Aluminium chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

if swallowed: Gastrointestinal complaints, Nausea, Vomiting, Diarrhoea, Causes very strong irritations of the eyes, skin and mucous membranes.

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

Hints for the physician / treatment

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

Hints for the physician / hazards

Risk of pulmonary oedema; Risk of pneumonia

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

If a fire breaks out nearby evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wear protective equipment

6.2. Environmental precautions

Knock down dust with water spray jet. Do not empty into drains, caverns and basements. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not inhale dust. Smoking, eating and drinking should be prohibited in application area. Wear protective equipment

Advice on protection against fire and explosion

No special measures required.

Trade name: Aluminium chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Keep tightly closed in a dry and cool place. Protect from exposure to light. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Do not store together with: Alkalies, metal oxides

Storage classes

| | | |
|-------------------------------------|----|--|
| Storage class according to TRGS 510 | 8B | Non-combustible corrosive hazardous substances |
| Storage category (Switzerland) | 8 | Caustic and corrosive substances |

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Aluminium chloride hexahydrate

| | | |
|-------|------|-------------------|
| List | SUVA | |
| Value | 2 | mg/m ³ |

Derived No/Minimal Effect Levels (DNEL/DMEL)

Aluminium chloride hexahydrate

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 1 | mg/m ³ |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Short term | |
| Route of exposure | inhalative | |
| Mode of action | Local effects | |
| Concentration | 2 | mg/m ³ |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Systemic effects | |
| Concentration | 0.3 | mg/kg/d |

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Keep away from food-stuffs, beverages and feed-stocks. Provide adequate ventilation. Do not breathe dust. Remove contaminated, soaked clothing immediately and dispose of safely. Do not eat, drink or smoke during work time.

Respiratory protection

Trade name: Aluminium chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

| | | | |
|----------------------|---------------|------|-----|
| Appropriate Material | Natural Latex | | |
| Material thickness | >= | 0.65 | mm |
| Breakthrough time | > | 480 | min |

Hand protection must comply with EN 374.

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

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

Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses; DIN EN ISO 16321-1:2022

Body protection

protective overalls

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

Physical state solid

Colour colourless

Odour odourless

Melting point

Remarks No data available

Boiling point or initial boiling point and boiling range

Remarks No data available

Upper and lower explosive limits

Remarks Not applicable

Flash point

| | |
|---------|----------------|
| Value | °C |
| Remarks | Not applicable |

Ignition temperature

Remarks Not applicable

Decomposition temperature

Remarks No decomposition if used as prescribed.

pH value

| | | | |
|--------------------------------|-----|-----|-----|
| Value | 2.5 | to | 3.5 |
| Concentration/H ₂ O | 5 | g/l | |
| Temperature | 20 | °C | |

Vapour pressure

Remarks No data available

Density and/or relative density

| | | | |
|-------------|-----------|----|-------------------|
| Value | appr. 2.4 | | g/cm ³ |
| Temperature | 20 | °C | |

Trade name: Aluminii chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

9.2. Other information**Solubility in water**

Value 477.0 g/l

Oxidising properties

Remarks non flammable

Bulk densityValue appr. 700 kg/m³**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

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materials

Alkalies, Metals

10.6. Hazardous decomposition products

Hydrogen chloride (HCl)

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Skin corrosion/irritation (Components)****Aluminium chloride hexahydrate**

evaluation irritant

Serious eye damage/irritation (Components)**Aluminium chloride hexahydrate**

evaluation irritant - risk of serious damage to eyes

Sensitization

Remarks No data available.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****Aluminium chloride hexahydrate**

| | | |
|----------------------|-----------------|------|
| Species | Salmo gairdneri | |
| LC50 | 36.6 | mg/l |
| Duration of exposure | 96 | h |

Trade name: Aluminii chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

Aluminium chloride hexahydrate

| | | |
|----------------------|-------------------------------------|------|
| Species | rainbow trout (Oncorhynchus mykiss) | |
| NOEC | 0.25 | mg/l |
| Duration of exposure | 42 | d |

Daphnia toxicity (Components)**Aluminium chloride hexahydrate**

| | | |
|----------------------|---------------|------|
| Species | Daphnia magna | |
| EC50 | 27.3 | mg/l |
| Duration of exposure | 48 | h |

Aluminium chloride hexahydrate

| | | |
|----------------------|---------------|------|
| Species | Daphnia magna | |
| NOEC | 0.8 | mg/l |
| Duration of exposure | 21 | d |

12.2. Persistence and degradability**Biodegradability (Components)****Aluminium chloride hexahydrate**

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

12.3. Bioaccumulative potential**General information**

No data available

12.4. Mobility in soil**General information**

No data available

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

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

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

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

No data available

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

| | | |
|----------------|-----------|--|
| EWC waste code | 16 03 03* | inorganic wastes containing dangerous substances |
|----------------|-----------|--|

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be

Trade name: Aluminium chloridum hexahydr

Substance number: 060744

Version: 8 / CH




Date revised: 06.01.2025

Replaces Version: 7 / CH

Print date: 06.01.25

taken for reuse.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|--|---|
| Tunnel restriction code | E | | |
| 14.1. UN number | 3260 | 3260 | 3260 |
| 14.2. UN proper shipping name | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. | CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| Label |  |  |  |
| 14.4. Packing group | II | II | II |
| Limited Quantity | 1 kg | | |
| Transport category | 2 | | |

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 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**

EUH071 Corrosive to the respiratory tract.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

CLP categories listed in Chapter 3

Eye Dam. 1 Serious eye damage, Category 1
Skin Corr. 1B Skin corrosion, Category 1B

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.

Trade name: Aluminium chloridum hexahydr

Substance number: 060744

Version: 8 / CH

Replaces Version: 7 / CH

Date revised: 06.01.2025

Print date: 06.01.25