

Material Safety Data Sheet

ALUMINIUM CHLORIDE

Section 1 - Chemical Product and Company Identification

MSDS Name : **ALUMINIUM CHLORIDE**

Synonyms : --

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	EC no	EINECS/ELINCS
7446-70-0	ALUMINIUM CHLORIDE	NA	NA

Section 3 - Hazards Identification

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin corrosion (Category 1B),

H314 For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram Corrossive

Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard information (EU) EUH014 Reacts violently with water.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Reacts violently with water. Reacts violently with water.

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Section 4 - First Aid Measures

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air.

If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 - Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder Carbon dioxide (CO₂) Dry powder

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas, Aluminum oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel.

Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

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Section 7 - Handling and Storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Store under inert gas. Vent periodically. Handle and open container with care. Reacts violently with water.

Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 - Exposure Controls, Personal Protection

8.1. Exposure controls

8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril®

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril®,

test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9 - Physical and Chemical Properties

- a) Appearance Form: light yellow powder
- b) Odour : no data available
- c) Odour Threshold :no data available
- d) pH : 2.4 at 100 g/l at 20 °C
- e) Melting point/freezing point
Melting point/range: Melting point/range: 190°C-lit.
- f) Initial boiling point and boiling range: Boiling point: 187.7 °C at 1003 hPa
- g) Flash point : not applicable
- h) Evaporation rate : no data available
- i) Flammability (solid, gas) : no data available
- j) Upper/lower flammability or explosive limits: no data available
- k) Vapour pressure : 1.00 mmHg at 100 °C < 1.00 mmHg at 20 °C
- l) Vapour density: no data available
- m) Relative density: 2.4400 g/cm³
- n) Water solubility: Decomposes in contact with water.
- o) Partition coefficient: no data available
- p) Autoignition temperature : no data available
- q) Decomposition temperature: no data available
- r) Viscosity no data available
- s) Explosive properties :no data available
- t) Oxidizing properties :no data available

Other safety information

no data available

Section 10 - Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions Reacts violently with water.

10.4 Conditions to avoid Exposure to moisture

10.5 Incompatible materials Strong oxidizing agents, Alcohols, Mixtures of nitrobenzene and aluminum chloride are thermally unstable and may lead to explosive decomposition due to a multi-step decomposition reaction occurring above 90 degrees C, which self-accelerates with high exothermicity producing azo- and azoxy polymers., Water

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Aluminum oxide

Other decomposition products - No data available In the event of fire: see section 5

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Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - 3,450 mg/kg(Aluminium chloride anhydrous)

Skin corrosion/irritation No data available(Aluminium chloride anhydrous)

Serious eye damage/eye irritation

Eyes - Human(Aluminium chloride anhydrous)

Result: Severe eye irritation

Respiratory or skin sensitisation - Guinea pig(Aluminium chloride anhydrous)

Result: Did not cause sensitisation on laboratory animals. (Maximisation Test)

Germ cell mutagenicity

No data available(Aluminium chloride anhydrous)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Laboratory experiments have shown teratogenic effects.(Aluminium chloride anhydrous) Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.(Aluminium chloride anhydrous)

Specific target organ toxicity - single exposure

No data available(Aluminium chloride anhydrous)

Specific target organ toxicity - repeated exposure

Aspiration hazard

No data available(Aluminium chloride anhydrous)

Additional Information

RTECS: BD0525000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, prolonged or repeated exposure can cause:, Damage to the lungs.(Aluminium chloride anhydrous)

Section 12 - Ecological Information

12.1 Toxicity

Toxicity to fish static test

LC50 - Salmo gairdneri - 36.6 mg/l - 96 h(Aluminium chloride anhydrous)

Toxicity to daphnia and other aquatic invertebrates static test

EC50 - Daphnia magna (Water flea) - 27.3 mg/l - 48 h(Aluminium chloride anhydrous) (EG 84/449) Toxicity to algae

EC50 - Pseudokirchneriella subcapitata (green algae) - 0.57 mg/l - 96 h(Aluminium chloride anhydrous)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances. 12.3

Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Aluminium chloride anhydrous)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects Harmful to aquatic life.

No data available

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Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product Offer

surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

14.1 UN number

ADR/RID: 1726

IMDG: 1726

IATA: 1726

14.2 UN proper shipping name

ADR/RID: ALUMINIUM CHLORIDE, ANHYDROUS

IMDG: ALUMINIUM CHLORIDE, ANHYDROUS

IATA: Aluminium chloride, anhydrous

14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16 - Other Information

Full text of H-Statements referred to under sections 2 and 3.

EUH014 Reacts violently with water.

H314 Causes severe skin burns and eye damage.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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