

**1. Identification of the substance/preparation and of the company/undertaking***Identification of the product*

Aluminum chloride crystal

*Manufacturer/supplier identification*

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**2. Hazards identification****Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity, Oral (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3) ,respiratory irritation

Short-term (acute) aquatic hazard (Category 3)

**Label elements**

Pictogram



Signal word Warning

**Hazard statement(s)**

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H402 Harmful to aquatic life

**Precautionary statement(s)**

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or with adequate ventilation.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep 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.

P312 IF exposed or concerned, get medical advice.

P321 Specific treatment (see on this label).

P332 + P313 If skin irritation occurs: Get medical help.

P337 + P313 If eye irritation persists: Get medical help.

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P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements  
none

## 3. Composition/information on ingredients

### *Synonyms*

Aluminum chloride crystal  
CAS-No.: 7784-13-6  
*M*: 241.43 g/mol  
Molecular formula:  $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$

## 4. First aid measures

### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

### **In case of skin contact**

Wash off with soap and plenty of water.

### **In case of eye contact**

Flush eyes with water as a precaution.

### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. Fire-fighting measures

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. Accidental release measures

### **Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **Conditions for safe storage**

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

## 8. Exposure controls and personal protection

### **Appropriate engineering controls**

General industrial hygiene practice.

### **Personal protective equipment**

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## **Eye/face protection**

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.

## **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## **9. Physical and chemical properties**

**Form:** crystalline powder

**Colour:** Colorless or white to buff

**Odour:** not available

**pH value:** not available

**Melting point:** ~100 °C

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** ~2.40 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** not available

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

### **Chemical stability**

Stable under recommended storage conditions.

### **Conditions to avoid**

no data available

### **Materials to avoid**

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Strong acid.

**Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

**Acute toxicity**

LD50 Oral - rat - 3.311 mg/kg

Inhalation: no data available

**Skin corrosion or irritation**

no data available

**Serious eye damage or eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

Genotoxicity in vitro - Mammal - lymphocyte

DNA damage

**Carcinogenicity**

no data available

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.

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

## **12. Ecological information**

**Toxicity**

Toxicity to fish

LC50 - other fish – 27.1 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) – 27.3 mg/l - 48 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

## **13. Disposal considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

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## **ADR/RID**

UN-Number: - Class: - Packing group: -  
Proper shipping name: Not dangerous goods

## **IMDG**

UN-Number: - Class: - Packing group: -  
Proper shipping name: Not dangerous goods  
Marine pollutant: no

## **IATA**

UN-Number: - Class: - Packing group: -  
Proper shipping name: Not dangerous goods

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.