

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

Aluminum sulfate octadecahydrate

*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]**

Corrosive to metals (Category 1)

Serious eye damage (Category 1)

**Label elements**

Pictogram



Signal word    Danger

**Hazard statement(s)**

H290      May be corrosive to metals.

H318      Causes serious eye damage.

**Precautionary statement(s)**

P280

Wear eye protection/ face protection.

P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

**Supplemental Hazard Statements**

none

**3. Composition/information on ingredients***Synonyms*

Aluminum sulfate octadecahydrate

CAS-No.: 7784-31-8

M: 666.42 g/mol

Molecular formula:  $\text{Al}_2(\text{SO}_4)_3 \cdot \text{H}_2\text{O}$

**4. First aid measures****If inhaled**

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

**In case of skin contact**



## Material Safety Data Sheet

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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**

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

### 5. Fire-fighting measures

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental release measures

**Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

**Precautions for safe handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

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

### 8. Exposure controls/personal protection

**Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment**

**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**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the



## Material Safety Data Sheet

sole means of protection, use a full-face supplied air respirator. 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:** glossy crystals or powder

**Colour:** White

**Odour:** not available

**pH value:** not available

**Melting point:** 92°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 :** not available

**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**

no data available

### **Conditions to avoid**

no data available

### **Materials to avoid**

Strong oxidizing agents Incompatible with strong bases and oxidizing agents., Ammonia, Water, Amines

### **Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

### **Acute toxicity**

LD50 Oral - Rat - > 5.000 mg/kg

### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation

### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Severe eye irritation

### **Respiratory or skin sensitization**

no data available



## Material Safety Data Sheet

### **Germ cell mutagenicity**

no data available

### **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.

### **Specific target organ toxicity - single exposure**

no data available

### **Specific target organ toxicity - repeated exposure**

no data available

### **Aspiration hazard**

no data available

## **12. Ecological information**

### **Toxicity**

no data available

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **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.

### **Other adverse effects**

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**

### **ADR/RID**

UN-Number: 3260 Class: 8 Packing group: III

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate hydrate)

### **IMDG**

UN-Number: 3260 Class: 8 Packing group: III

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate hydrate)

Marine pollutant: yes

### **IATA**

UN-Number: 3260 Class: 8 Packing group: III

Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate hydrate)

## **15. Regulatory information**

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



## Material Safety Data Sheet

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### 16. Other information

General update.

*Regional representation:*

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