

# Material Safety Data Sheet



**ALUMINIUM SULPHATE 18 HYDRATE AR / ACS**

**VERSION : 05**  
**REVISION DATE : 14/06/2025**  
**EFFECTIVE DATE : 16/06/2025**

**Product Code : 21411**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : **ALUMINIUM SULPHATE 18 HYDRATE AR / ACS**  
Product code : **21411**  
Identification of the product : **ALUMINIUM SULPHATE 18 HYDRATE AR / ACS**  
CAS No : **7784-31-8**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3. Details of the supplier of the safety data sheet

#### Company identification

MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Corrosive to Metals, (Category 1) H290  
Skin corrosion, (Sub-category 1A) H314  
Serious eye damage, (Category 1) H318

Full text of H- and EUH-statements: see section 16

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms : Not classified

Signal word

: Danger

Hazard statements

: H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautionary statements

: P234 - Keep only in original packaging.

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P260 - Do not breathe dust.  
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.  
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 Statements - none

## 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.

## 3. Composition/information on ingredients

### 3.1. Substances

Name : ALUMINIUM SULPHATE 18 HYDRATE AR / ACS  
CAS-No : 7784-31-8

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
First-aid measures after inhalation	: fresh air. Call in physician.
First-aid measures after skin contact	: In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
First-aid measures after eye contact	: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed	: After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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## 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

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

: For this substance/mixture no limitations of extinguishing agents are given.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : No data available

### 5.3. Advice for firefighters

Protection during firefighting

: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2. Environmental precautions

Do not let product enter drains.

### 6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts

### 6.4. Reference to other sections

For further information refer to section 13.

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## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust, fume, gas, mist, spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: No metal containers. Tightly closed. Dry.

Storage away from

: Open flame. Direct sunlight. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Recommended storage temperature

: +15°C to +30°C

### 7.3. Specific end use(s)

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

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Ingredients with workplace control parameters

### 8.2. Exposure controls

#### 8.2.2. Personal protection equipment

Eye protection

: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection

: required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory

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protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## 8.2.3 Environmental exposure controls

Do not let product enter drains.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: solid
Colour	: white
Odour	: characteristic
pH	: 2.5 – 3.5
Melting point	: ca.90 °C - (decomposition)
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: The product is not flammable
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1.72 g/cm3 at 20 °C
Water Solubility	: 364 g/l at 20 °C
Partition coefficient n-octanol/water (Log Pow)	: Not applicable for inorganic substances
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2 Other information

No data available

## 10. Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

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## 10.3. Possibility of hazardous reactions

none

## 10.4. Conditions to avoid

Air Exposure to moisture. no information available

## 10.5. Incompatible materials

No data available

## 10.6. Hazardous decomposition products

In the event of fire: see section 5

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: LD50 Oral - Rat - male and female - 2.140 mg/kg
Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available
Skin corrosion/irritation	: Causes severe burns.
Serious eye damage/irritation	: Causes serious eye damage
Respiratory or skin sensitisation	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration hazard	: No data available

## 12. Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

Not applicable for inorganic substances

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

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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

Discharge into the environment must be avoided.

## 13. Disposal considerations

### 13.1. Waste treatment methods

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions

## 14. Transport information

In accordance with ADR / IMDG / IATA / RID

### 14.1. UN number

UN-No. (ADR)	: 3260
UN-No. (IMDG)	: 3260
UN-No. (IATA)	: 3260
UN-No. (RID)	: 3260

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate hydrate)
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate hydrate)
Proper Shipping Name (IATA)	: Corrosive solid, acidic, inorganic, n.o.s. (Aluminium sulphate hydrate)
Proper Shipping Name (RID)	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate hydrate)

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8

#### IMDG

Transport hazard class(es) (IMDG)	: 8
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## IATA

Transport hazard class(es) (IATA) : 8

## RID

Transport hazard class(es) (RID) : 8

## 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (RID) : III

## 14.5. Environmental hazards

(ADR) : no  
Marine pollutant : no  
(IATA) : no  
(RID) : no

## 14.6. Special precautions for user

Tunnel restriction code : (E)  
Further information : No data available

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

## Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

## Germany

### 15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

## 16. Other information

### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

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BLV	Biological limit value
BOD	Biochemical oxygen demand
COD	Chemical oxygen demand
COD	Chemical oxygen demand
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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