

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identifier:

Commercial Product Name:

Chemical name: Aluminium Sulphate
EC No.: 233-135-0
CAS No.: 10043-01-3
Registration number: 01-2119531538-36-XXXX

Relevant identified uses of the substances or mixture and uses advised against:

Use of the substance/mixture: Water treatment chemical, use of substance in synthesis as a process chemical and as an intermediate. Products such as pH-regulators, flocculants, precipitants, neutralization agents.

Recommended restrictions on use: Do not use for other purposes than the identified uses.

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Eye Irrit. 2
Skin Irrit. 2
STOT SE 3

2.2 Label elements:



Signal Word: Warning. Danger.

Hazard Statements: H290: May be corrosive to metals.
H318: Causes serious eye damage.

Precautionary Statements: P234: Keep only in original container.
P390: Absorb spillage to prevent material damage.

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Prevention: P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response: 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 CENTRE/doctor.

Storage: P406: Store in a corrosion resistant container with a resistant inner liner.

Other hazards:

Inhalation: Possible risk for irritation of respiratory organs and skin.

Potential environmental effects: May lower the pH of water and thus be harmful to aquatic organisms.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Concentration	CAS Number	EC Number	REACH Reg. No.
Aluminium sulphate	20-30%	10043-01-03	233-135-0	01-2119531538-36-XXXX

Classification according to Regulation (EU) 1272/2008 (CLP):

Eye. Dam. Category 1, H318

Met. Corr. Category1, H290

Further information: For the full text of the H-Statements mentioned in the Section, see Section 16.

4. FIRST AID MEASURES (SYMPTOMS)

4.1 Descriptions of first aid measures:

General advice: Show this safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air.

Skin contact: Rinse with plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Eye contact: Important! Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If possible, use lukewarm water. Consult a physician. Continue rinsing eyes during transport to hospital.

Ingestion: Rinse mouth with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Corrosive effects, may cause irreversible eye damage.

4.3 Indication of immediate medical attention and special treatment needed:

Treatment: Rinse with plenty of water.

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Extinguishing media: Not combustible.

Unsuitable extinguishing media: No materials to be especially mentioned.

5.2 Special hazards arising from the substance or mixture: Heating above the decomposition temperature will release toxic gases. (Sulphur oxides (Sox)).

5.3 Advice for fire fighters: Exposure to decomposition products may be a hazard to health. In the event of fire, wear self-contained breathing apparatus. Protective clothing.

5.4 Specific methods: If possible, remove containers/ tanks from the dangerous area. Cool containers/ tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid raising dust.

Ensure adequate ventilation of the working area.

Wear suitable protective equipment.

6.2 Environmental Precautions: Do not allow product to enter drains.
Prevent further spillage if safe.

6.3 Methods and material for containment and cleaning up:

Sweep up.

Transfer to suitable, labelled containers for disposal.

Clean spillage area thoroughly with plenty of water.

6.4 Reference to other sections:

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with eyes and skin.

Ensure adequate ventilation of the working area.

Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well-ventilated area.

Keep containers tightly closed.

Store in correctly labelled containers.

7.3 Specific end use(s):

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

8.2 Exposure controls:

Engineering measures: Ensure adequate ventilation of the working area.
Respiratory protection: Wear: Suitable respiratory equipment.
Hand Protection: Chemical resistant gloves (PVC).
Eye Protection: Approved safety goggles.
Protective equipment: Wear chemical protective clothing.

Appropriate engineering controls: Avoid contact with skin and eyes. Ensure adequate ventilation.
Handle in accordance with good industrial hygiene and safety practice.
Eye wash bottle or emergency eye-wash fountain must be found in the workplace.

Individual protection measures, such as personal protection equipment:

Hand protection:

Glove material: Natural Rubber, Glove thickness: 0.5mm
Glove material: Polychloroprene, Glove thickness: 0.5mm
Glove material: Polyvinylchloride, Glove thickness: 0.5mm
Glove material: Nitrile rubber, Glove thickness: 0.35mm
Protective gloves complying with EN 374.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Liquid
Colour: Colourless, clear
Odour: Odourless
Odour threshold: Not relevant, odourless
pH: ca. 2
Crystallisation point/range: -10°C
Boiling point/range: 100 - 120°C
Flash point: Not applicable, inorganic compound, in accordance with column 2 of REACH Annex VII, the study does not need to be conducted.

Explosive properties:
Lower explosion limit: Not explosive
Upper explosion limit: Not explosive
Density: 1.30 – 1.34 g/cm³

Solubility (ies):
Water solubility: (20°C) completely soluble
Partition coefficient: n-octanol/water: Not applicable, inorganic compound
Auto-ignition temperature: Not auto-flammable
Thermal decomposition: 650°C

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Viscosity:

Viscosity, kinematic: No data available.

Oxidising: Not oxidising.

Volatile organic content (VOC): Not applicable.

Other data:

Corrosion: Corrosive to metals.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Corrosive to metals.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Hazardous reactions: Contact with certain metals may form hydrogen gas, which in turn may form explosive mixtures of gases with air.

10.4 Conditions to avoid: Avoid temperatures below crystallisation range.
Avoid storage at high temperatures.

10.5 Incompatible materials:

Materials to avoid: Avoid contact with unalloyed steel or galvanised surfaces.
Non-acid proof metals (for example aluminium, copper and iron)
Hypochlorite
Chlorites
Sulphites
Bases
Oxidising agents

10.6 Hazardous Decomposition Products

Hazardous decomposition products: Sulphur oxides (SO_x)

Thermal decomposition: 650°C

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: Acute toxicity: Very low in toxicity.
Corrosivity: Irritating to eyes and skin.

Human experience:

Inhalation: Inhalation may provoke the following symptoms: cough and difficulties in breathing.

Skin contact: Repeated or prolonged skin contact may cause; dry skin, irritation.

Eye contact: Contact with eyes causes a smarting pain and flood of tears, risk of serious damage to eyes.

Ingestion: Ingestion may provoke the following symptoms, nausea, irritation of mouth, oesophagus and stomach.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity: May cause acute effects in the aquatic environment

12.2 Persistence and degradability: No information available

12.3 Bioaccumulation Potential: Not expected to bioaccumulate.

12.4 Mobility in soil: Soluble in water.

12.5 Results of PBT and vPvB assessment: Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product: Classified as hazardous waste. Must be disposed of in accordance with local and national regulations.

Contaminated packaging: Classified as hazardous waste. Must be disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN Number: 3264

14.2 UN Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium Sulphate)

14.3 Transport hazard class(es): 8

14.4 Packing group: III

Classification code: C1

Risk code: 80

ADR/RID labels: 8

14.5 Environmental hazards: Not a Marine Pollutant.

14.6 Special precautions for user: The product is classified as dangerous goods, as it is slightly corrosive to metals.

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15. REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has been carried out for the main component.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Full text of H-Statements referred to under Section 3: H318: Causes serious eye damage.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.