

SAFETY DATA SHEET

PRODUCT NAME: Accepta 8302

1. Chemical product and company identification

Product Name : ALUMINIUM SULPHATE SOLUTION
Chemical Name : Aluminium sulphate
Product type and use : Coagulant for water treatment
Company identification : Accepta Ltd
Address and telephone number : Quay West, Trafford Wharf Rd, Manchester, M17 1HH, United Kingdom
: +44 (0) 161 240 2100
Emergency telephone number : +44 (0) 161 240 2101

2. Composition/information on ingredients

Chemical name	CAS No.	Content (%)	Symbol	R-phrases(s)	Safety Phrase(s)
Aluminium Sulphate	10043-01-3	~ 24-27	Xi	R36/37/38	S26, S28, S37, S39

3. Hazards identification

Main risks : May cause irritation to skin and mucous membranes
Inhalation : May cause irritation
Skin contact : May cause skin irritation, e.g. redness, eczema
Contact with eyes : May cause irritation
Ingestion : May cause sickness and vomiting
Environmental risks : The product can hydrolyse and form a precipitate of aluminium hydroxide when diluted beyond a particular level. The solubility of the product is dependant on the pH value.

4. First-aid measures

Inhalation : Remove from source of contamination to fresh air
Skin contact : Wash skin with plenty of water
Contact with eyes : Flush with plenty of water for 15 minutes
Ingestion : Flush with water, then give water to drink. Call a physician

5. Fire-Fighting measures

Extinguishing media :
- Suitable : Will not burn, use media appropriate for surrounding material
- Not suitable : None
Specific hazards : Thermal decomposition (>600°C) may liberate SO_x fumes.
Specific protection of firefighters : Use suitable safety equipment

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6. Accidental release measures

Personal precautions : Use appropriate protective clothing (See Section 8)
Environmental precautions : Do not let product enter drains, use suitable absorbing granules and sweep up.
Methods for cleaning up
- on ground : Flush with plenty of water, if possible neutralise with lime
- on water : Inform police and/or fire brigade and appropriate local authority

7. Handling and storage

Storage conditions : Containers can be stainless steel, rubber lined mild steel or plastic tanks.
Store between 0-30°C.
Storage stability : Approx. 1 year
Technical protective measures : Handle in accordance with good industrial hygiene and safety practice

8. Exposure controls/personal protection

Engineering measures to reduce Exposure : When handling, the working area and methods should be designed to prevent direct contact with the product and inhibit spray and/or splash
Personal protective equipment
- Inhalation : Avoid formation of mists
- Skin : Protective clothing, rubber or plastic gloves
- Eye protection : Safety glasses with side-shields. Equipment for eye rinsing
OEL : 2 mg Al/m³ (8 hour TWA)

9. Physical and chemical properties

Form : Colourless liquid
Odour : Insignificant
pH : Approx. 1.5-2.5 in concentrated solution.
Boiling temperature (°C) : 100-108
Melting/decomposition temp (°C) : N/A
Density (kg/m³) : 1300-1320
Solubility in water (weight - %) : Complete at 20°C.
Solubility in organic solvents : None

10. Stability and reactivity

Conditions to avoid : Avoid contact with chlorite/hypochlorite/sulphite/oxidising agents and cyanides
Materials to avoid : Unalloyed steel, galvanised or aluminium surfaces
Hazardous decomposition : Thermal decomposition (>600°C), may liberate SO_x fumes
Products

11. Toxicological information

Oral LD₅₀, rat (mg/kg) : > 5000 mg/kg
Intraperitoneal LD₅₀, mouse (mg/kg) : 6207 mg/kg

Dust and/or splash irritates mucous membranes, eyes and respiratory organs.

12. Ecological information

On contact with water, aluminium sulphate will hydrolyse to give dilute sulphuric acid and gelatinous aluminium hydroxide. Discharge to the aquatic environment should be avoided since it may lead to localised adverse effects arising from the product's physical properties. The clogging of tentacles, gills and filters of suspension feeders and the modification of the photosynthesis of algae and plankton may result from the presence of suspended particles and turbidity.

The product is an inorganic substance/preparation. During hydrolysis, a precipitate is formed of metal hydroxide in the pH range 5 to 7. Due to this reaction the pH in the water phase decreases. If phosphates are present, metal phosphate complex may form.

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13. Disposal considerations

Waste from product residues : Unused material should be considered as 'special waste'.
: Dilute with water, neutralise with lime
: Suitable dumping to local regulations
Waste from contaminated packaging : Local regulations apply, waste should be disposed of through licensed waste material handling companies

14. Transport information

Transport warning label : 8
Packing Group : III
ADR/RID : Class 8
IMO-IMDG code : Class 8
IATA : Class 8
UN No. : 3264 (Corrosive Liquid, Acidic, Inorganic, N.O.S.)

15. Regulatory information

Labelling according to EU directives
- Danger symbol(s) : Xi (Irritant)
- Risk phrase(s) : R36/37/38 Irritating to eyes, respiratory system and skin.

- Safety phrase(s) : S26 In the event of contact with eyes, rinse immediately with plenty of water and seek medical advice.
: S28 After contact with skin, wash immediately with plenty of water

: S37, S39 Wear suitable gloves made of plastic or rubber and wear eye/face protection.

EINECS No. : 233-135-0
CAS No. : 10043-01-3

16. Other information

References : 1) Gower Handbook of Water Treatment Chemicals (1996)
: 2) CEN Draft 1992

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