



Material Safety Data Sheet

DS7784249

1. Identification

Identification of the product

Catalogue No: **AL085**
Product name: **Aluminium potassium sulphate**
Synonyms: Alum; Aluminum potassium sulphate, dodecahydrate; Kalinite; Potassium alum; Sulphuric acid, aluminum potassium salt

Manufacturer/supplier identification

Company: Scientific & Chemical Supplies Limited
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2. Composition/information on ingredients

Chemical classification

Inorganic salt
CAS number: 7784-24-9 EC-No.: 233-141-3

3. Hazards identification

Not classified as dangerous according to EC Directives.

4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe cases, obtain medical attention.
- Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention. Obtain medical attention.

5. Fire-fighting measures

Special risks:

Not combustible. May evolve toxic fumes in fire. (sulphur oxides)

Suitable extinguishing media:

To suit environment.

Do not stay in dangerous zone without respiratory protective equipment. Prevent fire fighting water entering watercourses or ground-water.

6. Accidental release measures

Wear appropriate protective clothing. Avoid generation of dusts. Do not allow to enter sewerage system.

Carefully take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

- Ventilation: Extraction hood required when dusts are generated.
- Respirator: Dust respirator required when dusts are generated.
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

See section 15 for UK exposure limits.

9. Physical and chemical properties

Physical State:	Crystals
Appearance:	White
Odour:	Odourless
pH:	~3-4 (139 G/L, 20°C)
Melting Point:	92°C
Solubility in water:	Soluble.
Specific Gravity/Density:	1.74
Molecular Formula:	$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
Molecular Weight:	474.36

10. Stability and reactivity

Stable.

11. Toxicological information

Quantitative data on the toxicity of this product is not available. Property that must be anticipated on the basis of structure effect considerations:

- Skin contact: Slight irritation.
- Eye contact: Slight irritation.
- Ingestion: Irritation of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract.

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

Further data:

The following applies to aluminium compounds in general. After swallowing: only slightly absorbable via the gastrointestinal tract. If 4g or more of aluminium are ingested the following serious disorders can occur in man: phosphate metabolism, calcium metabolism.

Ames-Test: Negative.

12. Ecological information

Quantitative data on the ecological effect of this product is not available. Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

Further data:

The following applies to aluminium compounds in general: for acidic aluminium compounds: biological effects: toxic for water organisms. Fish: toxic from 0.55 mg/l up; in very soft water toxic from 0.1 mg/l up; crustaceans: D. magna toxic from 136 mg/l up; algae: Sc. quadricauda toxic from 1.5 mg/l up (all values referring to dissolved Al). In the case of alkaline aluminium compounds, flocculation may cause mechanical damage in aquatic organisms.

The following applies to sulphates in general: biological effects: fish: toxic from 7 g/l up; bacteria: toxic from 2.5 g/l up.

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

UN-No.:	Not regulated.	IMDG class:
IMO:		Packaging group:
IATA:		Packaging group:
Correct technical name:		

15. Regulatory information

Labelling according to EC directives

Symbol:

R-phrases:

Not classified as dangerous according to EC Directives.

S-phrases:

EC-No.: 233-141-3

Local Regulations:

UK Exposure Limits: WEL, Aluminium salts soluble:

Long term: 2 mg/m³

16. Other information

Date of issue: 10 July 2008

Important Statement

The information above is believed to be accurate and represents the best information currently available from multiple crosschecked sources. However, we make no warranty express or implied, with respect to such information, and we assume no liability resulting from its use.

Users should make their own investigations to determine the suitability of the information for their particular purposes.

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