

Safety Data Sheet (SDS)

Product Name: Potassium Aluminum Sulfate Dodecahydrate

CAS Number: 7784-24-9

EC Number: 233-141-3

Molecular Formula: $KAl(SO_4)_2 \cdot 12H_2O$

Molecular Weight: 474.39 g/mol

1. Identification

Product identifier

Potassium Aluminum Sulfate Dodecahydrate

Synonyms

Potassium alum

Potash alum

Alum

Aluminum potassium sulfate dodecahydrate

Recommended use

Laboratory chemical, analytical reagent, calibration material, technical compound for research and laboratory use.

Supplier

Rexar

Genestetstraat 3

2394 XK Hazerswoude Rijndijk

Netherlands

info@rexar.nl

2. Hazard Identification

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Eye Irritation, Category 2

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation

Precautionary statements

P264 Wash hands thoroughly after handling

P280 Wear protective gloves and eye protection

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes

3. Composition / Information on Ingredients

Substance

Potassium Aluminum Sulfate Dodecahydrate

CAS Number

7784-24-9

EC Number

233-141-3

Purity

Typically $\geq 99\%$

4. First Aid Measures

General advice

Remove contaminated clothing. Seek medical advice if symptoms persist.

Inhalation

Move person to fresh air.

Skin contact

Wash skin thoroughly with soap and water.

Eye contact

Rinse cautiously with water for several minutes.

Ingestion

Rinse mouth with water. Seek medical advice if discomfort occurs.

5. Fire Fighting Measures

Suitable extinguishing media

Water spray, dry chemical powder, carbon dioxide or foam.

Specific hazards

Thermal decomposition may produce sulfur oxides and metal oxides.

Protective equipment

Wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions

Avoid dust formation and use appropriate PPE.

Environmental precautions

Prevent large quantities from entering waterways.

Methods for cleanup

Sweep up material and place in suitable disposal container.

7. Handling and Storage

Handling

Handle in accordance with good laboratory practice.

Storage

Store in a cool, dry and well-ventilated area.

8. Exposure Controls / Personal Protection

Eye protection

Safety glasses or chemical splash goggles

Skin protection

Protective gloves

Respiratory protection

Dust mask recommended when dust is generated.

9. Physical and Chemical Properties

Appearance

Colorless to white crystalline solid

Odor

Odorless

Solubility

Soluble in water

10. Stability and Reactivity

Stability

Stable under recommended storage conditions.

Conditions to avoid

Excessive heat and moisture.

Incompatible materials

Strong bases.

Hazardous decomposition products

Sulfur oxides and metal oxides.

11. Toxicological Information**Acute toxicity**

Not classified as acutely toxic.

Skin irritation

May cause mild irritation.

Eye irritation

Causes serious eye irritation.

12. Ecological Information**Ecotoxicity**

No significant environmental hazard expected at normal laboratory quantities.

13. Disposal Considerations

Dispose of material in accordance with local regulations.

14. Transport Information**UN number**

Not regulated for transport.

Transport hazard class

Not classified as dangerous goods for ADR, IMDG or IATA.

15. Regulatory Information

Classification according to EU CLP Regulation (EC) No. 1272/2008.

Eye Irritation Category 2 – H319

16. Other Information

This Safety Data Sheet is provided for laboratory safety guidance.

The product is supplied as a chemical substance for analytical, technical or research applications only.

Not intended for human or animal consumption or for medical use.