MATERIAL SAFETY DATA SHEET

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Approved by: James A. Bertsch

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Section 1 Chemical Product and Company Information

Product	**ALUMINUM POTASSIUM SULFATE**
Synonyms	Potassium Alum; Alum

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units
Aluminum potassium sulfate	7784-24-9	100%	TWA: 10 mg/m^3 (as Al metal dust) (ACGIH 2001)

Section 3 Hazards Identification

Emergency Overview

WARNING!
HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.
Avoid contact with eyes or prolonged contact with skin.
Wash thoroughly after handling. Target organs: Liver, kidneys.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	1
Fire	0
Reactivity	0
Contact	1

HMIS *

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool. Fire or excessive heat above 760°C (1400°F), may produce hazardous decomposition products of toxic and corrosive gases, Sulfur trioxide and Aluminum oxide. Sulfur trioxide is an oxidizing agent which supports combustion and will react with water to form Sulfuric acid.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.
Flash Point: Non-flammable.
Autoignition temperature: N/A
Explosion Limits: Lower: N/A **Upper:** N/A

NFPA

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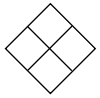

None listed.

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling & Storage GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Solid.
Appearance: White, crystals or powder.
Odor: No odor.
pH: N/A
Vapor pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Evaporation rate (Butyl acetate = 1): N/A
Viscosity: N/A
Boiling point: N/A
Freezing / Melting point: Loses H_2O @ 93°C (199°F)
Decomposition temperature: N/A
Solubility: Moderate.
Specific gravity (H_2O = 1): 1.97
Percent volatile (%): N/A
Molecular formula: $AlK(SO_4)_2 \cdot 12H_2O$
Molecular weight: 474.39

Section 10 Stability & Reactivity

Chemical stability: Stable
Conditions to avoid: Excessive temperature and heat.
Hazardous polymerization: Will not occur.

Incompatibilities with other materials: Alkalies. Corrosive to aluminum, steel, copper, zinc and many other metals.

Hazardous decomposition products: Sulfur trioxide.

Section 11 Toxicological Information

Effects of overexposure: Inhalation of dust may casue upper respiratory tract irritation. Toxic if ingested in large doses. May cause liver and kidney damage. Contact with skin and eyes may cause irritation, redness and pain. Exercise appropiate procedures to minimize potential hazards.

ORL-RAT LD50: N/A
SKN-RBT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: N/A
Shipping name: **Not Regulated.**
Hazard class: N/A
Packing group: N/A
Exceptions: N/A

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (233-141-3), DSL-not listed.

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.