1. PRODUCT DESCRIPTION

Product Name: Aluminum Potassium Sulfate
Product Code(s): 84-3360, 85-6120, GEO385, GEO385A, GEO387
Size: 500g
Chemical Name: Aluminum Potassium Sulfate
CAS Number: 7784-24-9
Formula: AlK(SO4)2 12H2O
Synonyms: Alum, Potassium Alum Dodecahydrate
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components:
Aluminum Potassium Sulfate (CAS# 7784-24-9) 100%

TLV and PEL units:
ACGIH-TLV 2mg(Al)/m³ (TWA)
OSHA-PEL 15mg(Al)/m³ (TWA);
5mg(Al)/m³ (TWA-respirable fraction)

3. HAZARD IDENTIFICATION

Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush thoroughly with water. Seek medical attention if irritation persists.
Skin - Wash exposed area with soap and water. Seek medical attention if irritation persists.
Ingestion - In quantities normally handled, symptoms would not be expected. If swallowed, if conscious, give water. Seek medical attention if gastrointestinal irritation or other unexpected symptoms develop.
Inhalation - Not expected to present a problem. However, if the exposed person is having trouble breathing, remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): No data available
Extinguisher Media:
Use media suitable to extinguish surrounding fire.
Flammable Limits in Air % by Volume: No data available
Autoignition Temperature: No data available
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Thermal decomposition or burning may produce SO2 and SO3.
6. SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS
Precautions to be Taken in Handling or Storing: Store tightly closed in a cool, dry, well ventilated area.
Other Precautions: Wash thoroughly after handling.

8. SPECIAL PROTECTION INFORMATION
Respiratory Protection (Specify Type):
None needed under normal conditions of use with adequate ventilation.
NIOSH approved equipment should be worn if PELs are exceeded.
Ventilation:
Local Exhaust: Preferred
Mechanical (General): Acceptable
Special: No
Other: No
Protective Gloves:
Rubber, neoprene, PVC, or equivalent.
Eye Protection:
Splash proof chemical safety goggles should be worn at all times.
Other Protective Clothing or Equipment:
Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA
Molecular Weight: 474.39
Melting Point: 92°C
Boiling Point: Decomposes
Vapor Pressure: No data available
Vapor Density (Air=1): No data available
Specific Gravity (H2O=1): 1.725 at 20°C
Percent Volatile by Volume: No data available
Evaporation Rate (H2O=1): No data available
Solubility in Water: 1g dissolves in 12ml water at 20°C
Appearance and Odor: Colorless or white odorless crystals.

10. REACTIVITY DATA
Stability: Stable
Conditions to Avoid: Extreme heat and dusting.
Incompatibility (Materials to Avoid): Strong oxidizers, Steel, Aluminum, Copper, and Zinc
Hazardous Decomposition Products: SOx
Hazardous Polymerization: Will not occur

11. TOXICITY DATA
Toxicity Data: No toxicity data found
Effects of Overexposure:
Acute: See section 3
Chronic: Reproductive effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA.
Conditions Aggravated by Overexposure: No data available
Target Organs: No data available
Primary Route(s) of Entry: No data available

12. ECOLOGICAL DATA
EPA Waste Numbers: None

13. DISPOSAL INFORMATION
Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION
Non regulated

15. REGULATORY INFORMATION
EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

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<th>Name Chemical</th>
<th>CERCLA</th>
<th>Sec. 103</th>
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16. ADDITIONAL INFORMATION
The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH.......American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA......Comprehensive Environmental Response, Compensation, and Liability Act
DOT..........U.S. Department of Transportation
IARC.......International Agency of Research on Cancer
mppcf......million particles per cubic foot
N/A........Not Available
NTP........National Toxicology Program
OSHA.......Occupational Safety and Health Administration
PEL........Permissible Exposure Limit
ppm........parts per million
RCRA.......Resource Conservation and Recovery Act
SARA.......Superfund Amendments and Reauthorization Act
TLV.......Threshold Limit Value
TSCA.......Toxic Substances Control Act