

MATERIAL SAFETY DATA SHEET

ALUMINUM AMMONIUM SULFATE, 12HYDRATE
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
Replaces: None
Printed: 22/05/00

1. PRODUCT DESCRIPTION

Product Name: Aluminum Ammonium Sulfate, 12 Hydrate
Product Code(s): 84-3140, 84-3160, 97-2101, 97-2118
Size: 500g
Chemical Name: Aluminum Ammonium Sulfate
CAS Number: 7784-26-1
Formula: $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
Synonyms: Aluminum Ammonium Sulfate Dodecahydrate, Alum
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Aluminum Ammonium Sulfate (CAS# 7784-26-1)100%
TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: Not expected to be hazardous under normal conditions of use.
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 with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): No data available
NFPA Rating: Health: 1
Fire: 0
Reactivity: 0

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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: Fire or excessive heat may produce hazardous decomposition products.

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 in a tightly closed container in a cool, dry place.

Other Precautions: Do not breathe dust. Wash 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 coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 453.33

Melting Point: 94.5C

Boiling Point: Decomposes above 280C

Vapor Pressure: Negligible as a solid

Vapor Density(Air=1): No data available

Specific Gravity(H2O=1): 1.65

Percent Volatile by Volume: Non volatile

Evaporation Rate(H2O=1): Non volatile

Solubility in Water: One gram dissolves in 7ml water, 0.5ml boiling water.

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Appearance and Odor: White crystals with no odor.

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Excessive temperature and heat.

Incompatibility (Materials to Avoid): Strong oxidizers, alkalis

Hazardous Decomposition Products: Thermal decomposition or burning may produce Ammonia, Nitrous Oxide, Sulfur Dioxide.

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: None established

Effects of Overexposure:

Acute: See section 3

Chronic: No chronic effects data found. Not listed as causing cancer by

IARC, NTP, or OSHA.

Conditions Aggravated by Overexposure: Preexisting conditions of the skin and upper respiratory tract.

Target Organs: Skin

Primary Route(s) of Entry: None indicated

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

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name	Chemical List Category		
Aluminum Ammonium Hydrate	No	No	No	No	No

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

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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 Services Abstract Number
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
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