

ALUMINIUM AMMONIUM SULPHATE (Molecular Biology Grade)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: ALUMINIUM AMMONIUM SULPHATE (Molecular Biology Grade)

Product Code: TMB 121

CAS#: 7784-26-1

Synonym: Ammonium Aluminum Sulfate hydrate; Ammonia alum; Ammonium alum; Alum ammonium; Ammonium Aluminum Alum; Aluminum Ammonium Alum

Chemical Name: Sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate

Chemical Formula: $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$

Formula Weight: 453.33

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Name: ALUMINIUM AMMONIUM SULPHATE (Molecular Biology Grade)

Toxicological Data on Ingredients:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects:

Carcinogenic effects: Not available.

Mutagenic effects: Not available..

Teratogenic effects: Not available.

Developmental toxicity: Not available. Repeated or prolonged exposure is not known to aggravate medical condition

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available..

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable

Auto-Ignition Temperature: Not Available

Flash Points: Not Applicable

Flammable Limits: Not Applicable



Products of Combustion: Non-flammable
Fire Hazards in Presence of Various Substances: Not Applicable
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not Available
Risks of explosion of the product in presence of static discharge: Not available
Fire Fighting Media and Instructions:
Special Remarks on Fire Hazards: Not Applicable
Special Remarks on Explosion Hazards: Not Applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in Case of a Large Spill:

Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Solid, powder
Color	:	White
Odor	:	Not available
Molecular Weight	:	453.33
Taste	:	Not available
PH	:	Not available
Boiling Point	:	Not available
Melting Point	:	168 - 170 °C(334.4°F)
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not applicable
Vapor Density	:	Not available



Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Partially soluble in hot water. Very slightly soluble in cold water. Soluble in Glycerin, and dilute acid Practically insoluble in alcohol

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions.

Instability Temperature: Not available

Conditions of Instability: Moisture

Incompatibility with various substances: Strong oxidizing material

Corrosivity: Non-corrosive.

Special Remarks on Corrosivity: Non corrosive.

Special Remarks on Reactivity: Ammonia is liberated simultaneously from ammonium aluminum alkali hydroxides, and carbonates. Borax and lime water precipitate aluminum hydroxide from solution of aluminum. Incompatible with aluminum and copper

Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION.

Routes of Entry: Not available

Toxicity to Animals:

LD₅₀: Not available

LC₅₀: Not available

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available

Special Remarks on Chronic Effects on Humans: Not available

Special Remarks on other Toxic Effects on Humans: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available.

BOD and COD: Not Available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.



SECTION 15: REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Aluminum Ammonium Sulfate Dodecahydrate.

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSD (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements. Not available

Other Special Considerations: Not available

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