

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Aluminum ammonium sulfate dodecahydrate

CAS number 7784-26-1

Synonyms Ammonium alum

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4 Emergency telephone

<b>Emergency Phone #</b>	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Specific target organ toxicity Category 3

Target organs - respiratory system

#### 2.2 GHS Label elements, including precautionary statements

**Pictogram****Signal Word**

Warning

**Hazard statements**

Causes skin irritation  
 Causes serious eye irritation  
 May cause respiratory irritation

**Precautionary Statements**

**Prevention** Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Avoid breathing dust/fumes/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area.

**Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell

**Skin** IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse.

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present  
 If eye irritation persists: Get medical advice/attention

**Storage** Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up

**Disposal** Dispose of contents/container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

None identified

**SECTION 3: Composition/information on ingredients****3.1 Components**

Chemical name	Common name and synonyms	CAS number	Concentration
Aluminum ammonium sulfate dodecahydrate	Ammonium alum	7784-26-1	>95%

**SECTION 4: First aid measures****4.1 Description of first-aid measures****General advice**

**If inhaled** Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

**In case of skin contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**If swallowed** Do NOT induce vomiting. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritating to eyes. Irritating to skin. Irritating to respiratory system.

**4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physician: Treat symptomatically

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media** Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media** No information available

**5.2 Specific hazards arising from the substance or mixture**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition.

**5.3 Special protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**5.4 Further information**

**Flash Point** No information available

**Autoignition Temperature** No information available

**Explosion limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**NFPA**

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Avoid release to the environment.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

### Precautions on safe handling

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

### Hygiene measures

Handle in accordance with good industrial hygiene practices.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible materials: Strong oxidizing agents.

### Incompatibilities

No information available

# SECTION 8: Exposure controls/personal protection

## 8.1 Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Aluminum ammonium sulfate dodecahydrate	(Vacated) TWA	2 mg/m <sup>3</sup>

### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Aluminum ammonium sulfate dodecahydrate	TWA	2 mg/m <sup>3</sup>

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

No information available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	4.6 0.05M aq.sol
Melting Point/Range	93.5 °C
Boiling Point/Range	200 °C
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Density	1.64

Solubility	150 g/L (20°C)
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	> 280°C
Viscosity	Not applicable
Molecular Formula	H4 Al N O8 S2 . 12 H2 O
Molecular Weight	453.33
VOC Content(%)	No information available
Oxidizing properties	No information available

## 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Nitrogen oxides (NOx), Sulfur oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium alum	Not listed	>2000 mg/kg	Not listed

#### Skin corrosion/irritation

Irritating to eyes, respiratory system and skin

#### Serious eye damage/eye irritation

Irritating to eyes, respiratory system and skin

**Respiratory or skin sensitization**

No information available

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Aluminum ammonium sulfate dodecahydrate	7784-26-1	Not listed	Not listed	Not listed	Not listed	Not listed

**Specific target organ toxicity - single exposure**

Respiratory system

**Specific target organ toxicity - repeated exposure**

None known

**Reproductive toxicity**

No information available

**Chronic effects**

No information available

**11.2 Additional Information**

No information available

**SECTION 12: Ecological information****12.1 Toxicity**

Do not empty into drains.

**12.2 Persistence and degradability**

Soluble in water. Persistence is unlikely based on information available.

**12.3 Bio accumulative potential**

No information available

**12.4 Mobility in soil**

Will likely be mobile in the environment due to its water solubility.

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Endocrine disrupting properties**

No information available

## 12.7 Other adverse effects

No information available

### SECTION 13: Disposal considerations

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

**DOT (US)** Not regulated

**IMDG** Not regulated

**IATA** Not regulated

### SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not applicable

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not applicable

**SARA 304 Emergency release notification**

Not applicable

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not applicable

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not applicable

**SARA 311/312 Hazardous**

See section 2 for more information

**SARA 313 (TRI reporting)**

Listed - Threshold Values %: 1.0

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not applicable

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.



**Safe Drinking Water Act**

Not regulated

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



: and easy to do. Continue rinsing.