

# LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Sulfate Hydrate

## 1. Product and Company Identification

Trade Name: Aluminum Sulfate Hydrate

Chemical Formula:  $Al_2(SO_4)_3 \cdot xH_2O$ 

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

### 2. Hazards Identification

Signal Word: Danger



Hazard Statements: H290: May be corrosive to metals

H318: Causes serious eye damage

Precautionary Statements: P234: Keep only in original container

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338+P310: If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician

P390: Absorb spillage to prevent material damage

P406: Store in a corrosive resistant container with a resistant inner liner

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

# 3. Composition

Chemical Family: Inorganic Material

Additional Names: N/A

Aluminum Sulfate Hydrate ( $Al_2(SO_4)_3 \cdot xH_2O$ ):

Percentage: 100 wt% CAS #: 17927-65-0 EC #: 233-135-0

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. **Special Treatment:** None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion: Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable, except as powder Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 2 mg/m<sup>3</sup> as Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>· xH<sub>2</sub>O, long-term value 2 mg/m<sup>3</sup> as Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>· xH<sub>2</sub>O, long-term value Threshold Limit Value: **Special Equipment:** None Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves Safety glasses or goggles Eve Protection:

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

**Body Protection:** 

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9. P	hysical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	86.5 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	1.69 g/cc
Molecular weight:	342.15 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agent, Strong bases, Ammonia, Water, Amines
Incompatible Conditions:	Air. Exposure to moisture
Hazardous Decomposition Products:	Sulfur oxides, Aluminum oxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A Besearch
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Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	LD50 oral: >5000 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
	DT/A
Very Persistent, Very Bioaccumulative:	N/A
Very Persistent, Very Bioaccumulative: Notes:	N/A N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

## 14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 8 Corrosive Substances

Packing Group: III UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Aluminum Sulfate Hydrate)

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	5000 lbs	
Sec 313 Toxic Chemicals:	No	

#### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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