



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Aluminum Sulfate USP Hydrate

30-1646

### Section 1: Identification

**Product Name** Aluminum Sulfate USP Hydrate

**Commercial Name** Not available.

**Product Use** Not available

**Restrictions On Use** Not available

**Product Code** 30-1646

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** Corrosive to metals - 1 Skin corrosion - 1A Serious eye damage - 1

**CFR 1910.1200**

**Signal Word** DANGER

**Hazard Statement(s)** May be corrosive to metals. Causes serious eye damage.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

<b>Prevention</b>	P234 Keep only in original container P280 Wear eye protection/ face protection
<b>Response</b>	P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician P390 Absorb spillage to prevent materail damage
<b>Storage</b>	P406 Store in corrosive resistant container with a resistant inner liner
<b>Disposal</b>	Not available

### Section 3: Composition/Information on Ingredients

<b>Substance/Mixture</b>	Substance
<b>Components</b>	Aluminum sulfate
<b>% By Weight</b>	100
<b>CAS#</b>	17927-65-0
<b>Molecular Weight</b>	342.14 g/mole
<b>Chemical Formula</b>	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>
<b>Synonym(s)</b>	Dialuminum trisulfate Cake alum, patent alum

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Aluminum sulfate hydrate	17927-65-0	100	TWA: 0.14	ORAL (LD50):Acute: 6207mg/kg [Mouse.].

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical advice
<b>Skin Contact</b>	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice
<b>Eye Contact</b>	Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical advice
<b>Ingestion</b>	Seek immediate medical advice
<b>Symptoms/Effects</b>	
<b>Acute</b>	May be harmful by inhalation, ingestion, or skin absorption. Moderately toxic by ingestion and intraperitoneal routes.
<b>Delayed</b>	May be harmful by inhalation, ingestion, or skin absorption. Moderately toxic by ingestion and intraperitoneal routes.
<b>Immediate Medical Attention</b>	Not available.

**Section 5: Fire-Fighting Measures**

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
<b>Unsuitable Extinguishing Media</b>	Not available.

**Products of Combustion**  
Oxides of aluminum Oxides of sulfur (SO<sub>x</sub>)

**Firefighters Special Equipment and Precautions**  
Wear self-contained breathing apparatus. Wear fully protective fire fighting equipment/clothing in fire situations

**Section 6: Accidental Release Measures**

Person-related safety precautions: Wear personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation  
Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits  
Measures for cleaning/collecting: Dispose of contaminated material as waste according to item 13  
Ventilate and wash spill site after material removal is complete

**Section 7: Handling and Storage**

Information for safe handling: Keep containers tightly sealed  
Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaust at the workplace  
Information about protection against explosions and fires: This material is not flammable  
Information about storage in one common storage facility: Store away from air / water / moisture  
Do not store together with strong oxidizers  
Further information about storage conditions: Keep container tightly sealed  
Store in cool, dry conditions in well sealed containers

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	ACGIH TLV: TWA 2 mg(Al)/m <sup>3</sup> (soluble salt) OSHA PEL: TWA 5 mg/m <sup>3</sup> (respirable); 15 mg/m <sup>3</sup> (total dust)
<b>Engineering Controls</b>	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute
<b>Personal Protection</b>	General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin. Respiratory protection: Use suitable respirator when high concentrations are present Use only NIOSH/MESA or CEN approved full-face particle respirator type N100 or TYPE P3 (EN 143) Hand protection: Impervious gloves Eye protection: Safety glasses Chemical safety goggles Full face protection Skin protection: Protective work clothing Additional protective equipment: Sufficient to prevent contact Emergency eyewash and safety shower

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	White. Crystalline		
<b>Odor</b>	Odorless		
<b>Odor Threshold</b>	Not available		
<b>Melting Point</b>	86.5 C (decomposes)	<b>pH</b>	Not available
<b>Freezing Point</b>	Not available	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	Not available	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	Non-flammable	<b>Autoignition temperature</b>	Not available
<b>Flammability</b>	Non flammable	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not applicable
		<b>Upper</b>	Not applicable
<b>Solubility(ies)</b>	360 g/L @ 20 C in water.		
<b>Other</b>	Molecular Weight (Calculated): 342.15 (anhydrous)		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Hazardous Polymerization</b>	Not available.
<b>Conditions to Avoid</b>	No decomposition if used and stored according to specifications
<b>Incompatible Materials</b>	Strong oxidizers. Water / moisture / air.
<b>Hazardous Decomposition Products</b>	Aluminum oxide, oxides of sulfur (SOx)

**Section 11: Toxicological Information****RTECS** BD1700000**Acute Toxicity**

LD/LC50 values that are relevant for classification: oral-rat LD50: &gt; 5000 mg/kg

**Skin Corrosion/Irritation**

Not available

**Serious Eye Damage/Irritation**

Not available

**Respiratory or Skin Sensitization**

No sensitizing effect known

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

**Reproductive Toxicity**

Not available

**Routes of Entry**

Inhalation. Ingestion. Skin. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known

**Symptoms Related to Exposure**

Not available.



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### Potential Health Effects

Not available

### Target Organ(s)

Not available

## Section 12: Ecological Information

### Ecotoxicity

Not available

### Persistence and Degradability

Not available

### Bioaccumulative Potential

Not available

### Mobility in Soil

Not available

### Other Adverse Effects

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system Do not allow material to be released to the environment without proper governmental permits

## Section 13: Disposal Considerations

### Waste Disposal

Consult state, local or national regulation for proper disposal. Allow professional disposal company to handle waste. Must be specially treated under adherence to official regulations

### Disposal of Container

Disposal must be made according to official regulations.

### Other Considerations

Not available

## Section 14: Transport Information

### DOT Classification

Not a DOT controlled material (United States). UNNA: 9078 PG: III This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

## Section 15: Regulatory Information

### Regulations

SARA 302 Components: Not applicable SARA 311/312 Components: Acute Health Hazard, Chronic Health Hazard SARA 313 Components: Not applicable California Prop. 65 Components Not applicable National regulations: All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory Information about limitation of use: For use only by technically qualified individuals

### Other

WHMIS CLASS D-2A: Material causing other toxic (Canada) effects (VERY TOXIC).;DSCL (EEC) R60- May impair fertility.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.;Safety glasses.

## Section 16: Other Information

Not available.