


Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Aluminum Sulfate Octadecahydrate  
**NCL Catalog Number** A-8  
**Product Description** Laboratory chemical  
**Manufacturer** EMD Chemicals Inc. PO Box 70, 480 Democrat Road  
 Gibbstown, NJ 08027  
**Supplier** NCL of Wisconsin, Inc. PO Box 8, Birnamwood, WI 54414  
 Telephone: 1-800-648-7836 Fax: 715-449-2454  
 Email: [nclabs@nclabs.com](mailto:nclabs@nclabs.com) Emergency Contact: 1-800-424-9300 (Chemtrec)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**  
 Serious Eye Damage Category 1   
**Signal Word** Danger  
**Hazard Statements**  
 H318 Causes serious eye damage.  
**Precautionary Statements**  
 P280 Wear eye protection/face protection.  
 P305+P351+P338 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.  
**Other Hazards Not Contributing to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Formula**  $Al_2(SO_4)_3 \cdot 18H_2O$   
**Molecular Weight** 666.43 g/mol

Substance

Name	CAS #	Approximate %
Aluminum Sulfate Octadecahydrate	7784-31-8	100

**SECTION 4: FIRST AID MEASURES**

Description of First Aid Measures

**General First Aid Measures** Never give anything by mouth to an unconscious person. Move out of dangerous area. Seek medical advice if you feel unwell.  
**If Inhaled** Remove person to fresh air and keep comfortable for breathing. Allow victim to rest. Call a POISON CENTER or doctor if you feel unwell.  
**In Case of Skin Contact** Remove all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor if you feel unwell.  
**In Case of Eye Contact** Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
**If Swallowed** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

Most Important Symptoms/Effects Acute and Delayed

No additional information.

**Indication of Immediate Medical Attention and Special Treatment Needed**

Seek medical attention if exposed.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media** Foam. Dry powder. Sand. Carbon dioxide. Water spray.

**Unsuitable Extinguishing Media** Do not use high pressure water stream.

**Special Hazards Arising from the Chemical** Thermal decomposition generates corrosive vapors, sulfur oxides and aluminum oxide.

**Special Protective Actions for Fire-Fighters** Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Ventilate area.

**Environmental Precautions** Prevent entry to surface and ground waters.

**Methods and Materials for Containment and Cleaning Up** Pick up and arrange disposal without creating dust. Sweep up and shovel, collect spillage. Store away from other materials. Ensure compliance with federal, state, and local regulations.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling** Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of dust.

**Conditions for Safe Storage Including any Incompatibilities** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

Aluminum Sulfate Octadecahydrate (7784-31-8)		
USA OSHA	OSHA TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (TLV) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

**Appropriate Engineering Controls** Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures** Avoid all unnecessary exposure.

**Eye/Face Protection** Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.

**Skin Protection** Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Respiratory Protection** Wear appropriate mask.

**Other Information** Do not eat, drink, or smoke when using this product.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Solid  
**Color** White  
**Odor** Odorless  
**Odor Threshold** Not determined  
**pH** Not determined  
**Melting Point/Freezing Point** Not determined

<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Not determined
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

#### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	No data available.
<b>Conditions to Avoid</b>	Extremely high or low temperatures. Heat and sunlight can contribute to instability.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	No data available.

#### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Not classified
<b>Aluminum Sulfate (7784-31-8)</b>	
<b>LD oral rabbit</b>	> 9000 mg/kg
<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Causes serious eye damage.
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available.
<b>Chronic Symptoms</b>	Not available
<b>Other Information</b>	Not available

#### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS**

Methods of Disposal

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with federal, state, and local regulations.
<b>Other Information</b>	Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	3077
<b>UN Shipping Name</b>	Aluminum sulfate, n.o.s
<b>Transport Hazard Class(es)</b>	9
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

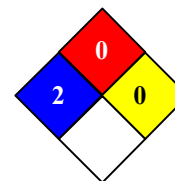
<b>Aluminum Sulfate Octadecahydrate (7784-31-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable Quantity)	5000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

**SECTION 16: OTHER INFORMATION**

Revision Date: 01/05/2015

**NFPA Hazards**

<b>Health Hazard</b>	2: Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.
<b>Fire Hazard</b>	0: Materials that will not burn.
<b>Reactivity/Instability</b>	0: Normally stable, even under fire exposure conditions.



**HMIS III Rating**

<b>Health</b>	2: Temporary or minor injury may occur.
<b>Flammability</b>	0: Materials that will not burn.
<b>Physical Hazard</b>	0: Materials that are normally stable, even under fire conditions.
<b>Personal Protection</b>	A

<b>A-8</b>	
Health	2
Flammability	0
Physical Hazard	0
Personal Protection	A

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**END OF SAFETY DATA SHEET**