

Section 1 Chemical Product and Company Information

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80 Northwest Blvd.
Nashua, NH 03063
(800) 225-3739

CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory use only.
Not for drug, food or household use.

Product ALUMINUM SULFATE, 18-HYDRATE**Synonyms** Aluminum Sulfate, Octahydrate

Section 2 Hazards Identification

Signal word: DANGER**Pictograms:** GHS05**Target organs:** None known**GHS Classification:**

Serious eye damage (Category 1)

GHS Label information: Hazard statement:

H318: Causes serious eye damage.

Precautionary statement:

P280: Wear protective gloves/protective clothing/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.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Aluminum sulfate	7784-31-8	100%	233-135-0

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Fire or excessive heat above 760°C (1400°F), may produce hazardous decomposition products of toxic and corrosive gases, Sulfur trioxide and Aluminum oxide. Sulfur trioxide is an oxidizing agent which supports combustion and will react with water to form Sulfuric acid.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from high humidity and water.

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Aluminum sulfate	Not established	Not established	Not established

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Appearance: Solid, white granules or powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 86°C (187°F) Boiling point: Decomposes Flash point: Non flammable	Evaporation rate (= 1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.61 @ 17°F Solubility(ies): 50 g/100 ml H ₂ O @ 0°C	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: 770°C (1418°F) Viscosity: Data not available. Molecular formula: Al ₂ (SO ₄) ₃ ·18H ₂ O Molecular weight: 666.45
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Chemical stability: Stable **Hazardous polymerization:** Will not occur.
Conditions to avoid: Excessive temperatures and heat, high humidity and water.
Incompatible materials: Oxidizing agents and moisture.
Hazardous decomposition products: Sulfur trioxide and aluminum oxide.

Acute toxicity: Oral-rat LD50: 6207 mg/kg
Skin corrosion/irritation: Data not available
Serious eye damage/irritation: Eyes-rabbit - Severe irritant.
Respiratory or skin sensitization: Data not available
Germ cell mutagenicity: Data not available
Carcinogenity: Data not available
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity: Data not available
STOT-single exposure: Data not available
STOT-repeated exposure: Data not available
Aspiration hazard: Data not available
Potential health effects:
 Inhalation: This material hydrolyzes readily to form some sulfuric acid which acts as a tissue irritant, particularly to the lungs.
 Ingestion: May cause irritation of gastrointestinal tract, nausea, vomiting, and purging. Human fatal dose recorded at 30 grams.
 Skin: May cause skin irritation, especially under repeated or prolonged contact or when moisture is present.
 Eyes: May irritate or burn eyes. Similarly for the aqueous solutions.
Signs and symptoms of exposure: Exercise appropriate procedures to minimize potential hazards.
Additional information: RTECS #: BD1700000

Toxicity to fish: *Salmo gairdneri* (fish, estuary, fresh water), 0.5 mg/L/24 hours
Toxicity to daphnia and other aquatic invertebrates: *Daphnia magna* (Crustacea), EC50 = 136 mg/L/15 minutes
Toxicity to algae: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
PBT and vPvB assessment: No data available
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

UN/NA number: Not applicable	Shipping name: Not Regulated		
Hazard class: Not applicable	Packing group: Not applicable	Reportable Quantity: No	Marine pollutant: No
Exceptions: Not applicable	2012 ERG Guide # Not applicable		

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Aluminum sulfate	Listed	Not listed	Not listed	Not listed	Not listed	Not listed

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