



MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. AA 200
Effective Date September 15, 1998

SECTION V HEALTH HAZARD DATA

AA 200

Threshold Limited Value As Aluminum Soluble salts 2 mg/m³ (ACGIH, 1992-93).
TXDS: LD₅₀ (mouse) is approximately 10.8 g/Kg. (Slightly toxic).

Effects of Overexposure **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.

Emergency and First Aid Procedures **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If discomfort or illness develops, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability **Unstable** **Conditions to Avoid** Excessive temperature and heat. Keep dry.
Stable X

Incompatibility (Materials to Avoid) Alkalies and water-reactive materials such as oleum: causes exothermic reactions.

Hazardous Decomposition Products Sulfur trioxide and Aluminum oxide.

Hazardous Polymerization **Conditions to Avoid**
May Occur **Will Not Occur** Not applicable.
X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Small spills may be dissolved in water and flushed to sewer with copious amounts of water. Larger spills- sweep up and place in appropriate container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation **Local Exhaust** None needed. **Special** No.
Mechanical (General) Recommended. **Other** No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, lab coat, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from sources of ignition. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5 **Date** 9/15/98 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ALUMINUM SULFATE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p>	Health	1
Chemical Synonyms	Alum		Fire	0
Formula	Al ₂ (SO ₄) ₃ •14H ₂ O (approx.)		Reactivity	0
Unit Size	up to 2.5 Kg.		HMIS *	
C.A.S. No.	17927-65-0		LEAST SLIGHT MODERATE HIGH EXTREME	0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Aluminum Sulfate	100%	None established.

WARNING! HARMFUL IF SWALLOWED. CONTACT MAY CAUSE IRRITATION TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	86°C (187°F)	Specific Gravity (H₂O = 1)	1.61 @ 17°C
Boiling Point (°F)	Decomposes @ 770°C (1418°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate	(=1) Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	50 grams per 100 mL. water @ 0°C.		
Appearance & Odor	White or creamy white granules or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media Use any media suitable for extinguishing supporting fire.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

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.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20