

**MATERIAL SAFETY DATA SHEET****Alum Plus™****SECTION I - PRODUCT IDENTIFICATION**

DATA SHEET: Alum Plus  
EFFECTIVE DATE: 1/15/13  
REVISED DATE: 01/15/12  
PRODUCT NAME: Alum Plus™  
GENERAL OR GENERIC ID: Aluminum Sulfate Solution

PRODUCT ID: 7-40441-01006  
ATTN.: SAFETY DIRECTOR  
INFORMATION: (602) 921-3110

**SECTION II - HAZARDOUS INGREDIENTS / IDENTITY**

INGREDIENTS	CAS No.	% (BY VOLUME)	OSHA (PEL)
Aluminum Sulfate	10043-01-3	< 50%	*

\* ACGIH TLV - 2 mg / mg3 for mist or dust ( the components of this product are listed on the EPA / TSCA Inventory )

**SECTION III - PHYSICAL DATA**

BOILING POINT: NOT DETERMINED  
VAPOR PRESSURE: NOT DETERMINED  
VAPOR DENSITY (Air-1): NOT APPLICABLE  
pH OF SOLUTION: 3.5  
APPEARANCE AND ODOR: Clear Waterwhite, Amber, or Slightly green

SPECIFIC GRAVITY (H2O=1): 1.33  
EVAPORATION RATE: NOT APPLICABLE  
VISCOSITY: NOT DETERMINED  
SOLUBILITY IN WATER: SOLUBLE

**SECTION IV FIRE AND EXPLOSION INFORMATION**

FLASH POINT : NOT APPLICABLE  
F & METHOD: PMCC  
FLAMMABLE LIMITS: LEL: NOT APPLICABLE  
UEL: NOT APPLICABLE

**FIRE HAZARDS:**

This material does not burn. Keep temperatures below 1200° F.

**EXTINGUISHING MEDIA:**

Use water spray with caution to keep temperature below 1200° F.  
At decomposition temperatures of 1200° F and above, sulfur trioxide, an oxidizer is formed.

**SECTION V - PHYSICAL HAZARDS ( REACTIVITY DATA )**

CHEMICAL STABILITY: STABLE

CONDITIONS TO AVOID: NOT APPLICABLE

INCOMPATIBILITY (materials to avoid): STRONG ALKALIES

HAZARDOUS DECOMPOSITION / BYPRODUCTS: SULFUR TRIOXIDE AND ALUMINUM OXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARD RATING SCALE: HEALTH: 2 FIRE: 0 REACTIVITY: 0  
( 4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal )

**MATERIAL SAFETY DATA SHEET****Alum Plus™****SECTION VI HEALTH HAZARDS****PRIMARY ROUTES OF ENTRY:**

Inhalation: X      Absorption: X      Ingestion: X      Injection: Not applicable

**HEALTH HAZARDS:**

May be hazardous if inhaled, ingested or absorbed through the skin. Corrosive to tissue. Direct contact with eyes and skin may cause severe damage and burns. Vapors or mists may cause irritation of mucous membranes. Ingestion may cause nausea, vomiting, diarrhea, and gastrointestinal bleeding. Can be fatal if swallowed.

**EMERGENCY & FIRST AID PROCEDURES:**

In case of **EYE** contact, immediately flush with running water for at least 15 minutes. For **SKIN** contact, wash with soap and water, removing clothing if contaminated. In cases where this product has been **INHALED**, victim should be removed to fresh air and given artificial respiration if not breathing or oxygen if breathing is difficult. If **INGESTED** give large amounts of water or milk to drink. A physician should be consulted immediately upon bodily contact.

*IF CONDITIONS PERSIST, SEEK MEDICAL ATTENTION.*

Carcinogenicity? NO      NTP? NO      IARC Monograph? NO      OSHA Regulated? NO

**SECTION VII - SPILL / LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Always wear proper personal protective equipment when addressing a spill or leak. Aluminum Sulfate can be neutralized with Soda Ash or Lime. Adequate ventilation is required when neutralizing spills or leaks.

**WASTE DISPOSAL METHOD:**

Contact an EPA or State Approved Disposal Facility.

**SECTION VIII - PROTECTION INFORMATION / CONTROL MEASURES**

**RESPIRATORY PROTECTION:** NIOSH DUST / MIST RESPIRATOR if mist >2mg / m<sup>3</sup>

**VENTILATION:** Local Exhaust: Recommended      General Exhaust: Recommended

**SPECIAL:** use SCBA when entering tanks

**PROTECTIVE GLOVES:** Chemically Resistant / Non-Slip

**EYE PROTECTION:** Chemical Safety Goggles / Safety Glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear clothing to limit skin contact

**WORK / HYGIENIC PRACTICES:** Clean up Spills Promptly, Was Contaminated Clothing