

IDENTITY: ALUM, DRY (Aluminum Sulfate)

Section I – Manufacturer Information

ALLIED CHEMICAL
PO Box 1139R
Morristown, NJ 07960

Telephone Number for Information:
(201) 455-4157
Date Prepared: June, 1982

EMERGENCY NUMBER: (800) 424-9300 (Chemtrec)

Section II – Hazard Ingredients/Identity Information

| <u>COMPONENT</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|------------------|-----------------|------------------|
| NOT APPLICABLE | | |

Formula – $\text{Al}_2(\text{SO}_4)_3 \cdot 14 \text{H}_2\text{O}$ (approx)
Molecular Weight – 594 (approx)

Section III – Physical/Chemical Characteristics

| | |
|----------------------------|------------------------|
| Boiling Point: N/A | Specific Gravity: 1.61 |
| Vapor Pressure: negligible | Melting Point: N/A |
| Vapor Density: N/A | Evaporation Rate: N/A |

Solubility in Water: 50% at 0°C

Appearance and Odor: White or creamy white granules or powder with no odor.

Section IV – Fire and Explosion Hazard Data

| | |
|--|----------------------------------|
| Flash Point (Method Used): Not flammable | Flammable Limits: Not applicable |
| LEL: | UEL: |
| Extinguishing Media: Not applicable | |

Special Fire Fighting Procedures: Wear self-contained breathing apparatus approved by NIOSH.

Unusual Fire and Explosion Hazards: SEE HAZARDOUS DECOMPOSITION PRODUCTS (SECTION V)

Section V – Reactivity Data

Stable or Unstable? Stable

Conditions to Avoid: Temperatures above 760°C (1400°F): yield toxic and corrosive gases

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

Hazardous Decomposition or Byproducts: At temperatures cited above, sulfur oxide gases. These are toxic and are oxidizers and corrosive. The trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.

Hazardous Polymerization May Occur or Will Not Occur? Will Not Occur

Conditions to Avoid:

Section VI – Health Hazard Data

Routes of Entry

Inhalation: Dust or mist inhalation at levels above the TLV listed below may irritate respiratory tract.

Skin: May cause skin irritation, especially under repeated or prolonged contact, or when moisture is present.

Ingestion: May irritate gastrointestinal tract. May cause nausea, vomiting, and purging.

Carcinogenicity:

NTP:

IARC Monographs:

OSHA Regulated:

Health Hazards:

Signs and Symptoms of Exposure:

Medical Conditions Generally Aggravated by Exposure:

Emergency and First Aid Procedure:

Eyes: Flush immediately with water, continuing for at least 15 minutes

Skin: Flush with plenty of soap and water, removing contaminated clothing.

Inhalation: Promptly remove to fresh air.

Ingestion: If conscious, immediately give a large quantity of water or milk. If not already vomiting, induce vomiting.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Shovel up dry chemical and place in empty container and cover. Spray residue with plenty of water. Neutralize any further residue with alkali such as soda ash, lime or limestone. Adequate ventilation is required if soda ash or limestone is used because of the consequent release of carbon dioxide gas.

Waste Disposal Method:

Precautions to be Taken in Handling and Storing: Avoid contact with skin, eyes or clothing. Avoid breathing dust or mist. Store in a cool, dry area.

Other Precautions:

Section VIII – Control Measures

Respiratory Protection: Where required, use a respirator approved by NIOSH for dusts or mists.

Ventilation

Local Exhaust: If dusty or misty condition prevails. May exceed TLV with out visible indication.

Mechanical:

Special:

Other:

Protective Gloves: Yes

Eye Protection: Chemical safety goggles – Do not wear contact lenses.

Other Protective Clothing or Equipment: Full work clothing, including long-sleeved shirt and trousers for routine product handling use.

Work/Hygienic Practices:

Section IX – Additional Information

The information provided in this Material Safety Data Sheet represents data from the manufacturer and/or vendor and is accurate to the best of our knowledge. By providing this information, Delta Education LLC makes no guarantee or warranty, expressed or implied, concerning the safe use, storage, handling, precautions, and/or disposal of the products covered or the accuracy of the information contained in this fact sheet. It is the responsibility of the user to comply with local, state, and federal laws and regulations concerning the safe use, storage, handling, precautions, and/or disposal of products covered in this fact sheet.