

MSDS**Material Safety Data Sheet**

24 HOUR EMERGENCY
TELEPHONE NUMBER
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Section I: IDENTIFICATION

Product Name: Aluminum Chloride Solutions

20 to 70%, 6 N Weight Volume

Azer Scientific Catalog Number(s): ES639-4, ES639-8, ES639-16, ES640-4, ES640-8, ES640-16, ES641-4, ES641-8, ES641-16, ES642, ES642-4, ES642-16, ES643-4, ES643-16, ES 644-4, ES644-16

Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>	NFPA
Aluminum Chloride 20 to 70%	7784-13-6	NA	Health 1 Flammability 0 Reactivity 0

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~212°F	<i>Specific Gravity (H₂O = 1):</i>	~1.1
<i>Vapor Pressure mm Hg/20 °C:</i>	NA	<i>Percent Volatile by Vol:</i>	10%
<i>Vapor Density (Air 1:1):</i>	NA	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Clear liquid, odorless

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: 62°F *Flammable Limits:* LEL, NA UEL, NA
Extinguishing Media: Water spray, dry chemical, CO₂ and foam
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire & Explosion Hazards: Will emit toxic fumes under fire conditions.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong oxidizers, chromic anhydride, acids etc.
Hazardous Decomposition or Byproducts: hydrogen chloride
Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat

Section VI: HEALTH HAZARDS

Routes of Entry: Inhalation, Skin and Ingestion

Acute: Vapors or solution may cause eyes, skin and respiratory irritation.

Chronic: Repeated exposure may cause general deterioration of health by accumulation.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Irritation of skin and eyes.

Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Ingestion: Rinse mouth with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact a physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Isolate the spill area with sand, or other absorbent material. Place all contaminated material in a closed container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Normal handling and storage for liquids. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area, use under an approved fume hood or NIOSH approved respirator.

Ventilation: Mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant

Eye Protection: Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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