

## MATERIAL SAFETY DATA SHEET

1 OF 2

### Section I: IDENTIFICATION

*Product Name:* Aluminum Chloride 20%  
in Ethanol

*Date Prepared:* 09/19/03 *Date Revised\*:* 09/26/06  
*Item Number:* 400523  
*Emergency Phone, Infotrac:* 800-535-5053

### Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL(PPM)</i>	<i>NFPA</i>
Aluminum Chloride 20%	7784-13-6	NA	<i>Health</i> 1
Ethyl Alcohol (SDA-3A)100%	64-17-5	1000/NA	<i>Flammability</i> 3
			<i>Reactivity</i> 0

### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~148°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~<1
<i>Vapor Pressure mm Hg/20 °C:</i>	NA	<i>Percent Volatile by Vol:</i>	~90%
<i>Vapor Density (Air 1:1):</i>	NA	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Clear liquid, odorless

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* 56°F *Flammable Limits:* LEL, 6.7 UEL, 36.5  
*Extinguishing Media:* Water spray, dry chemical, CO<sub>2</sub> 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, organic 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.

**HealthLink**  
3611 St. Johns Bluff Road South, Suite 1, Jacksonville, FL 32224  
904-996-7758

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## 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 persist.

**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.

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## 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 flammable liquids. Avoid excessive heat.

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## 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:*** Special flammable hood in high vapor concentrations. Mechanical exhaust is sufficient for low concentrations.

***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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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. HealthLink shall not be held liable for any damage resulting from handling or contact with this product.

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\*Change due to customer request. No substantial changes since prepared date.

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