

## Common Name: ALUMINUM CHLORIDE

Synonyms: Aluminum Trichloride; Anhydrous Aluminum Chloride CAS No: 7446-70-0 Molecular Formula: AlCl<sub>3</sub> RTK Substance No: 0057 Description: Yellowish or grayish-white crystalline solid or powder with a sharp odor that is water reactive

HAZARD DATA				
Hazard Rating	zard Rating Firefighting		Reactivity	
3 - Health 0 - Fire 2-W - Reactivity DOT#: UN 1726 ERG Guide #: 137 Hazard Class: 8 (Corrosive)	Non-flammable Use dry chemical or CO <sub>2</sub> as extinguishing agents. DO NOT USE WATER. Use water spray to keep fire-exposed containers cool. DO NOT get water inside tanks. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Hydrogen Chloride</i> . <b>Aluminum Chloride</b> may ignite combustibles (wood, paper and oil).	Aluminum AIR to form Aluminum CARBON ALKENES OXIDE; O ETHYLEN PERCHLO CHLORA <sup>T</sup> STRONG POTASSI HALOGE	Aluminum Chloride may react violently with WATER and MOIST AIR to form toxic <i>Hydrogen Chloride gas</i> and heat. Aluminum Chloride is not compatible with ALUMINUM OXIDE; CARBON OXIDE; PHENYL AZIDE; GLYCIDOL; NITROBENZENE; ALKENES; BENZOYL CHLORIDE; NAPHTHALENE; ETHYLENE OXIDE; OXYGEN DIFLUORIDE; NITROMETHANE; ANILINES; ETHYLENIMINE; OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE); EPICHLOROHYDRIN; HALOGENATED HYDROCARBONS; and ALCOHOL.	
SPILL/LEAKS		-	PHYSICAL PROPERTIES	
Isolation Distance: Small Spills: 30 meters (100 feet) when spilled in water Large Spills: 120 meters (400 feet) when spilled in water Fire: 800 meters (1/2 mile) Collect powdered material in the most convenient and safe manner and deposit in sealed containers. Keep Aluminum Chloride out of confined spaces where water may be present (such as sewers), because of the possibility of an explosion. Harmful to aquatic life at low concentrations. EXPOSURE LIMITS OSHA: None NIOSH: 2 mg/m <sup>3</sup> , 10-hr TWA		Odor Thresho Flash Point: Vapor Density Vapor Pressur Specific Gravi Water Solubili Boiling Point: Melting Point: Molecular Wei	Id: 1 re: 2 ty: 2 ty: 1 continues of the second	Sharp Nonflammable 2.5 (air = 1) 1 mm Hg at $212^{\circ}$ F ( $100^{\circ}$ C) 2.7 (water = 1) Decomposes 360°F ( $182^{\circ}$ C) 374°F ( $190^{\circ}$ C) 133.34 <b>ECTIVE EQUIPMENT</b> Rubber and Nitrile (for <i>solid</i> ) and Neoprene (if <i>HCl</i> esent) Rubber and Nitrile (for <i>solid</i> ) and Neoprene (if <i>HCl</i> esent)
ACGIH: Withdrawn IDLH: None	III: Withdrawn Coveralls: I: None Respirator:		Hydroge >2 mg/m <sup>3</sup>	<i>n Chloride gas</i> is present) <sup>3</sup> - Full facepiece APR with High efficiency filter
		EIDS	If Hydrogen Chloride gas is present, use Supplied air	
Eyes:       Severe irritation and burns         Skin:       Severe irritation and burns         Inhalation:       Nose, throat and lung irritation with coughing, wheezing and severe shortness of breath (pulmonary edema)		<ul> <li>Remove the person from exposure.</li> <li>Quickly brush off excess chemical from the face. Immediately flush with large amounts of water for at least 30 minutes, lifting upper and lower lids. Remove contact lenses, if worn, while flushing. Seek medical attention immediately.</li> <li>Quickly remove contaminated clothing. Immediately blot or brush off excess chemical and wash gently with large amounts of water for at least 30 minutes. Seek medical attention immediately.</li> <li>Begin artificial respiration if breathing has stopped and CPR if necessary.</li> <li>Transfer to a medical facility.</li> <li>Medical observation is recommended as symptoms may be delayed.</li> </ul>		