

Section 1: Identification		
Common Name/Trade Name	ALUMINUM CHLORIDE HEXAHYDRATE USP	
Supplier Information	Letco Medical 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Aluminum chloride	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification		
Classification of Substance or Mixture	Skin irritation (Category 2), Eye irritation (Category 2A), Specific target organ toxicity - single exposure (Category 3), Respiratory system, Acute aquatic toxicity (Category 3), Chronic aquatic toxicity (Category 3)	
Signal Word	Warning	
Hazard Statement(s)	H315 H319 H335 H412	Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful to aquatic life with long lasting effects
Pictogram(s)	(!)	
Precautionary Statement(s)	P261 P264 P271 P273 P280 P302+P352 P304+P340 P305+P351+P338 P312 P332+P313 P337+P313 P362 P403+P233 P405 P501	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN Wash with soap and water. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs Get medical advice/attention. If eye irritation persists Get medical advice/attention. Take off contaminated clothing and wash before reuse. Store in a well ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data Available	

Section 3: Composition/Information on Ingredients	
Chemical Name	Aluminum chloride hexahydrate
Common Name	Aluminum chloride hexahydrate
CAS Number	7784-13-6
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures	
General Advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important Symptoms and Effects	Cough, Shortness of breath, Headache, Nausea, Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 5: Fire Fighting Measures	
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	Hydrogen chloride gas, Aluminum oxide.
Special PPE and/or Precautions for Firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Methods and Materials Used for Containment	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Cleanup Procedures	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 7: Handling and Storage	
Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for Safe Storage	Keep container tightly closed in a dry well-ventilated place. Caution: the anhydrous form of this material has been reported to have the following hazards associated with it. Prolonged storage of anhydrous aluminum chloride in closed containers has resulted to spontaneous decomposition and occasional explosion upon opening the container probably due to the diffusion of moisture into the container with resulting pressure build-up due to liberated hydrogen chloride gas. When heated in sealed tube, high internal pressure may be generated due to not only its vapor pressure and pressure of desorbed hydrogen chloride, but also by the near doubling in volume which occurs when the material melts to the monomer. Mixtures of nitrobenzene and aluminum chloride are thermally unstable and may lead to explosive decomposition due to a multi-step decomposition reaction occurring above 90 °C, which self-accelerates with high exothermicity producing azo-and azoxypolymers. Violent exothermic reactions can occur upon aluminum chloride contacting: alkenes, a mixture of benzoyl chloride and naphthalene, a mixture of aniline and ethyleneimine, ethylene oxide, a mixture of sodium peroxide and aluminum. Aluminum chloride reacts explosively with: oxygen difluoride, phenyl azide, perchloryl benzene or sodium borohydride. Moisture sensitive.

	Section 8: Exposure Controls/Personal Protection
Components with Workplace Control Parameters	Components: Aluminum chloride hexahydrate CAS No. 7784-13-6. Value: TWA. Control parameters: 2mg/m3. Basis: USA. OSHA-TABLE Z-1 Limits for Air Contaminants 1910.1000. Value: TWA. Control parameters: 2mg/m3. Basis: USA. NIOSH Recommended Exposure Limits.
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
PPE - Eye/Face Protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
PPE - Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
PPE - Body Protection	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
PPE - Respiratory Protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties		
Appearance	Form: Crystalline Colour: Colourless	
Upper/Lower Flammability or Explosive Limits	No data available	
Odor	No data available	
Vapor Pressure	1 hPa (1 mmHg) at 100 °C (212 °F)	
Odor Threshold	No data available	
Vapor Density	No data available	
рН	2.5 - 3.5 at 20 °C (68 °F)	
Relative Density	2.398 g/cm3	
Melting Point/Freezing Point	Melting point/range: 100 °C (212 °F)	
Solubility	No data available	
Initial Boiling Point and Boiling Range	No data available	
Flash Point	No data available	
Evaporation Rate	No data available	
Flammability (Solid, Gas)	No data available	
Partition Coefficient	No data available	
Auto-Ignition Temperature	No data available	
Decomposition Temperature	No data available	
Viscosity	No data available	

Section 10: Stability and Reactivity	
Reactivity	No data available
Chemical Stability	May decompose on exposure to moist air or water. Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong acids
Hazardous Decomposition Products	Other decomposition products- No data available

Section 11: Toxicological Information		
Acute Toxicity - LD50 Oral	LD50 Oral - rat - 3,311 mg/kg	
Acute Toxicity - Inhalation	No data available	
Acute Toxicity - Dermal	No data available	
Acute Toxicity - Eye	No data available	
Skin Corrosion/Irritation	No data available	
Serious Eye Damage/Irritation	No data available	
Respiratory or Skin Sensitazation	No data available	
Germ Cell Mutagenicity	Mammal, lymphocyte, DNA Damage	
Carcinogenicity IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
Carcinogenicity ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
Carcinogenicity NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
Carcinogenicity OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
Reproductive Toxicity	Developmental Toxicity-mouse-Intravenous. Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Other developmental abnormalities.	
Specific Target Organ Toxicity - Single Exposure	Inhalation-May cause respiratory irritation	
Specific Targer Organ Toxicity - Repeated Exposure	No data available	
Aspiration Hazard	No data available	

Section 12: Ecological Information	
Toxicity	Toxicity to fish LC50 - other fish 27.1 mg/l-96 h. Toxicity to daphnia and other aquatic invertebrates EC50-Daphnia magna (Water flea)-27.3 mg/l-48 h.
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. May be harmful to aquatic organisms due to the shift of pH. Avoid release to the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

Section 13: Disposal Considerations	
Waste Treatment Methods Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Waste Treatment Methods Packaging	Dispose of as unused product.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information		
UN Number	Not dangerous goods	
UN Proper Shipping Name	N/A	
Transport Hazard Class(es)	N/A	
Packaging Group	N/A	
Environmental Hazards	N/A	

Section 15: Regulatory Information

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards: Acute Health Hazard. Massachusetts Right To Know Components: No components are subject to the Massachusetts Right To Know Act. Pennsylvania Right To Know Components: Aluminum chloride hexahydrate CAS No. 7784-13-6 Revision Date 1989-08-11. New Jersey Right To Know Components: Aluminum chloride hexahydrate CAS No. 7784-13-6 Revision Date 1989-08-11. California Prop. 65 Components: This product does not contain any chemicals know to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information		
Prepared By	Scarlotte Smith	
Revision Date	05/19/2015 13:55	

Disclaimer

The Harvard Drug Group, L.L.C. ("THDG") believes that the above information is correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. THDG shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.