SAFETY DATA SHEET

Section 1 Chemical P	Product and Company Information	Page E1 of E2
Nashua	thwest Blvd. a, NH 03063 25-3739	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.
Product ALUMINUM CHLORI	IDE, HEXAHYDRATE	
Synonyms None		
Section 2 Hazards Ide	entification	
Signal word: DANGER Pictograms: GHS05 Target organs: None known. GHS Classification: Skin corrosion (Category 1B) GHS Label information: Hazard st H314: Causes severe skin burns an		 Precautionary statement: P260: Do not breathe dust. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310: Immediately call a POISON CENTER or doctor. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Aluminum chloride		7784-13-6	100%	231-208-1 (anhydrous)		
Section 4	First Aid Measures					
Section 4	First Alu Weasures					

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SEVERE SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam. DO NOT USE WATER!

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water hydrolyzes material, liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from humidity and water.

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linnes.	Aluminum chloride	Not established	Not established	Not established		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9 Physical & Chemical Pro	perties						
Appearance: Solid. White crystalline powder Odor: No odor Odor threshold: Data not available pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Non flammable	Evaporation rate (=1): Data not Flammability (solid/gas): Data not Explosion limits: Lower / Upper: Vapor pressure (mm Hg): Data not Vapor density (Air = 1): Data not a Relative density (Specific gravity) Solubility(ies): 456 g/L H ₂ O @ 20	: available Data not available t available ivailable : 2.398-2.440 @ 20°C	Partition coefficient: Data Auto-ignition temperatur Decomposition temperatur Viscosity: Data not availa Molecular formula: AICl ₃ Molecular weight: 241.43	e: Data not available ure: Data not available ble ⁶ H ₂ O			
Section 10 Stability & Reactivity	y						
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, moisture. Incompatible materials: Reacts violently with water. Alcohols. Hazardous decomposition products: Aluminum oxides and hydrogen chloride gas. Decomposition yields highly toxic fumes of hydrochloric acid.							
Section 11 Toxicological Information	n						
Acute toxicity: Oral-rat LD50: 3311 mg/kg [anhydrous] Skin corrosion/irritation: Skin-rabbit - causes burns Serious eye damage/irritation: Eyes-rabbit - causes damage Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available 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. 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. 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. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Inhalation causes burning sensation, cough, laboured breathing, shortness of breath, sore throat. Ingestion: Ingestion causes addominal pain, burning sensation, shock or collapse. Skin: Contact causes skin burns. Eyes: Contact causes skin burns. Eyes: Contact causes skin burns. Eyes: Contact causes skin burns.							
Section 12 Ecological Information							
Toxicity to fish: Gambusia affinis (fish, fresh wate Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Chlorella vulgaris (Algae), EC50 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	tes: Daphnia magna (Crustacea), EC5 = .225 mg/L/4 months [anhydrous] Bioaccumulative potential: N PBT and vPvB assessment: N cannot be excluded in the event of unput	0 = 70 mg/L/24 hours [o data available lo data available					
Section 13 Disposal Considerations							
These disposal guidelines are intended for the regulations may be different. Dispose of in acc							
Section 14 Transport Information (L							
• •	name: Corrosive solids, n.o.s.,	Aluminum chloride,	hexahydrate)				
Hazard class: 8 Packing	group: III Repor	table Quantity: No	. ,	arine pollutant: No			
Exceptions: Limited quantity equal to or les	ss than 5 Kg 2012 E	RG Guide # 154					
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for							
Component	TSCA CERLCA (RQ)	RCRA code	DSL NDSL	WHMIS Classification			
Aluminum chloride	Listed Not listed	Not listed	Listed Not listed	E E			
Section 16 Additional Information							
	antic of any kind. Employers about use this	information only as a sun	plement to other information gat	nered by them and must make indepen-			

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.