



# Safety Data Sheet

Section 1. Identification	
<b>Product Identification and Item Numbers:</b>	Aluminum Chloride in Water Solution, 35% w/v (AC/35/1, AC/35/2, AC/35/PT)
<b>Product Description:</b>	A solution of Aluminum Chloride (hexahydrate) USP 35% w/v in purified water
<b>Recommended use and restrictions on use:</b>	N/A
<b>Supplier:</b>	Delasco 608 13 <sup>th</sup> Avenue Council Bluffs, IA 51501 1-712-323-3269 <a href="http://www.delasco.com">www.delasco.com</a> <a href="mailto:questions@delasco.com">questions@delasco.com</a>
<b>In Case of Emergency, Contact:</b>	Chemtrec (24 hour) 1-800-424-9300

Section 2. Hazard(s) Identification	
<b>Classification:</b>	
Skin Corrosive (Category 1B) Eye Irritant (Category 2) Metal Corrosive (Category 1)	
<b>Labeling:</b>	
<b>Hazard symbol(s):</b>	
 GHS05: corrosive	 GHS07: exclamation mark
<b>Signal word:</b>	<b>Danger!</b>
<b>Hazard statements:</b>	
H314: Causes severe burns and eye damage. H290: May be corrosive to metals.	
<b>Precautionary statements:</b>	
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/ physician.	

<b>Section 3. Composition/Information on Ingredients</b>	
<b>Chemical Name and Concentration:</b>	Aluminum Chloride, Hexahydrate 35% w/v Water, 65% w/v
<b>Other Names, Common Names, Synonyms:</b>	N/A
<b>CAS Number, other unique identifiers:</b>	Mixture: Water CAS# 7732-18-5 Aluminum Chloride, Hexahydrate CAS# 7784-13-6
<b>Other classified impurities or stabilizers:</b>	N/A
<b>Other ingredients posing health hazards:</b>	N/A
<b>Concentration of other hazardous ingredients:</b>	N/A

<b>Section 4. First-aid Measures</b>	
<b>Inhalation exposure:</b>	Inhalation: Remove from source of exposure and get immediate medical attention.
<b>Skin exposure:</b>	Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops. Remove contaminated clothing.
<b>Eye contact:</b>	Eye Contact: Immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.
<b>Ingestion:</b>	Ingestion: Do not induce vomiting. If the victim is conscious, administer large volumes of fluids. Never give anything by mouth to an unconscious person.

<b>Section 5. Fire Fighting Measures</b>	
<b>Suitable / unsuitable extinguishing media:</b>	Use media suitable to extinguish surrounding fire.
<b>Specific hazards / combustion products:</b>	Irritating and highly toxic gases may be generated by thermal decomposition or combustion.
<b>Special protective equipment and precautions for fire-fighters:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA / NIOSH (approved or equivalent), and full protective gear.
<b>NFPA Hazard Classification</b>	Health – 2 Flammability – 0 Instability – 0 0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe

<b>Section 6. Accidental Release Measures</b>	
<b>Personal precautions and protective equipment:</b>	Stop leak if you can do it without risk. Wear chemical resistant gloves.
<b>Environmental Precautions:</b>	Not available.
<b>Containment / clean up methods:</b>	Absorb with paper towels or other absorbent materials and transfer to suitable disposal container.

<b>Section 7. Handling and Storage</b>	
<b>Precautions for safe handling:</b>	Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment and avoid contact with skin, eyes, and clothing. Wear chemical resistant gloves. Wear safety glasses.
<b>Conditions for safe storage:</b>	Keep tightly closed and cool, but protect from freezing. Protect containers against physical damage.
<b>Incompatibilities to avoid:</b>	Avoid strong bases.

<b>Section 8. Exposure Controls and Personal Protection</b>	
<b>OSHA Permissible Exposure Limit (PEL):</b>	Not available
<b>Threshold Limit Value (TLV):</b>	Not available
<b>Other exposure limits:</b>	Not available
<b>Engineering controls:</b>	Provide eyewash facility and a safety shower nearby.
<b>Personal protective equipment:</b>	<p><b>Respiratory Protection</b> Provide adequate ventilation. In case of insufficient ventilation, or unknown exposure levels, wear suitable respiratory equipment.</p> <p><b>Eye Protection</b> Wear appropriate safety glasses to prevent eye contact.</p> <p><b>Skin Protection</b> Wear appropriate personal protective clothing to prevent skin contact. Wear chemical resistant gloves. Immediately wash the skin when it becomes contaminated. Work clothing that becomes wet should be immediately removed.</p>
<b>Other personal protection measures:</b>	Provide nearby eyewash station and safety shower.

<b>Section 9. Physical and Chemical Properties</b>	
<b>Appearance (physical state, color, etc.):</b>	Clear, colorless liquid.
<b>Odor:</b>	Salty odor.
<b>Odor threshold:</b>	Data not available
<b>pH:</b>	Acidic
<b>Melting point / freezing point:</b>	Data not available for this mixture.
<b>Initial boiling point and boiling range:</b>	Data not available for this mixture.
<b>Flash point:</b>	Data not available for this mixture.
<b>Evaporation rate:</b>	Data not available for this mixture.
<b>Flammability</b>	Data not available for this mixture.
<b>Upper / lower flammability or explosive limits:</b>	Data not available for this mixture.
<b>Vapor Pressure:</b>	Data not available for this mixture.
<b>Vapor density:</b>	Data not available for this mixture.
<b>Relative density:</b>	Data not available for this mixture.
<b>Solubility:</b>	Data not available for this mixture.
<b>Partition coefficient: n-octanol/water:</b>	Data not available for this mixture.
<b>Auto-ignition temperature:</b>	Data not available for this mixture.
<b>Decomposition temperature:</b>	Data not available for this mixture.
<b>Viscosity:</b>	Data not available for this mixture.

<b>Section 10. Stability and Reactivity</b>	
<b>Chemical stability:</b>	The product is stable.
<b>Possibility of hazardous reactions:</b>	Not available.
<b>Conditions to avoid (static, shock, vibration...)</b>	Protect containers against physical damage, freezing, and excessive heat.
<b>Incompatible materials:</b>	Strong bases. Organic materials.
<b>Hazardous decomposition products:</b>	Hydrogen chloride, irritating and toxic fumes and gases, aluminum oxide.

<b>Section 11. Toxicological Information</b>	
<b>Routes of exposure:</b>	Eyes, skin, mucous membranes
<b>Acute Symptoms (acute):</b>	<ul style="list-style-type: none"> <li>Inhalation: Corrosive and irritating to respiratory tract.</li> <li>Ingestion: May cause nausea, vomiting, diarrhea. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause systemic effects. Aluminum may be readily absorbed from the gastrointestinal tract.</li> <li>Skin contact: Irritating and corrosive.</li> <li>Eye contact: Irritating and corrosive. Causes eye burns. May cause chemical conjunctivitis and corneal damage.</li> </ul>
<b>Symptoms (chronic): Chronic effects from short and long term exposure:</b>	Chronic effects may be delayed.
<b>Numerical measures of toxicity (e.g., acute toxicity estimates):</b>	Not available
<b>NTP carcinogen:</b>	Not listed
<b>EPA carcinogen:</b>	Not available
<b>ACGIH carcinogen:</b>	A4: Not classifiable as a human carcinogen (Aluminum metal and insoluble compounds)
<b>IARC potential carcinogen:</b>	Not listed
<b>OSHA carcinogen:</b>	Not listed

<b>Section 12. Ecological Information (Non-mandatory)</b>	
<b>Ecotoxicity (aquatic and terrestrial, where available):</b>	Not available.
<b>Persistence and degradability:</b>	Not available.
<b>Bioaccumulative potential:</b>	Not available.
<b>Mobility in soil:</b>	Not available.
<b>Other adverse effects:</b>	Not available.

<b>Section 13. Disposal Considerations (Non-mandatory)</b>	
<b>Safe methods of disposal:</b>	Dispose of in accordance with federal, state and local environmental control regulations.

<b>Section 14. Transport Information (Non-mandatory)</b>						
<b>US DOT</b>	<b>UN number:</b>	UN2581	<b>Class:</b>	8	<b>Packing Group:</b>	III
<b>UN proper shipping name:</b>		Aluminum Chloride Solution				
<b>Packing group, if applicable:</b>		III				
<b>Environmental hazards (marine pollutant, etc...)</b>		Not available				
<b>Special transport precautions:</b>		N/A				

<b>Section 15. Regulatory Information (Non-mandatory)</b>	
<b>Specific safety, health, and environmental regulations:</b>	N/A

<b>Section 16. Other information</b>	
<b>Date of preparation or last revision:</b>	September 11, 2018