

**PRODUCT NAME:** Aluminum Chlorohydrate, Aqueous Solution

Transportation Emergencies, Call (800) 424-9300 (CHEMTREC)  
Health Emergencies, contact Your Local Poison Center

**Caution:** Causes irritation. Avoid contact with skin, eyes or clothing.

### **I. PRODUCT INFORMATION**

**Product Name:** Aluminum Chlorohydrate, Aqueous Solution  
**Chemical Name(s):** Aluminum Chlorohydrate, Basic Aluminum Chloride, Aluminum Chlorohydrate, Aluminum Chloride Hydroxide  
**CAS Number:** 12042-91-0  
**Formula:**  $Al_2(OH)_5Cl$

### **II. COMPONENT DATA**

<b>Typical Composition</b>	<b>CAS #'s</b>	<b>%</b>
Aluminum Chlorohydrate	12042-91-0	35- 50
Water	7732-18-5	Balance

**Exposure Standard:**

Hazard Ratings: Health = 1 Flammability = 0 Reactivity = 0  
0 = Least; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme;

### **III. PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS**

**Ventilation:** Adequate ventilation should be provided to keep vapor and mists below exposure limits.

**Eye:** Wear safety glasses with side shields. Wear a face shield if possibility of material splashing or spraying exists.

**Skin:** Where there is possibility of skin contact, use the following as appropriate: gloves impervious to material, apron, boots, hood, pants and jacket.

**Respiratory:** Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

### **IV. HEALTH INFORMATION**

#### **PHYSIOLOGICAL & HEALTH EFFECTS**

**Routes of Entry:**

**Eyes:** Eye contact results in mild irritation and redness.

**Skin:** Skin contact may cause irritation. Skin may dry or crack due to astringent nature of material.

- Inhalation:** Although unlikely to occur, inhalation may result in an adverse reaction to persons previously sensitized to the material.
- Ingestion:** Effects of small amount are negligible; large amounts may injure slightly.
- Exposure Limits:** Not specifically regulated as toxic or hazardous by OSHA. The ACGIH TLV for mists or dusts of soluble aluminum salts is 2 mg/m<sup>3</sup> as Al (8 hour time-weighted average).
- Carcinogenicity:** None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

#### **EMERGENCY & FIRST AID PROCEDURES**

- Eyes:** Immediately flush eyes with water for 15 minutes with plenty of water. Call a physician.
- Skin:** Flush skin with water. Remove contaminated clothing; wash before reuse.
- Inhalation:** Remove to fresh air.
- Ingestion:** Get prompt medical attention if large amount is swallowed.

#### **V. REACTIVITY DATA**

- Stability:** Stable
- Hazardous Decomposition:** Thermal decomposition can result in chlorine compounds and metal oxides.
- Hazardous Polymerization:** Will not occur
- Incompatibility:** N/F
- Conditions to Avoid:** Exposure to high temperatures could lead to decomposition.

#### **VI. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance and Odor:** Clear to translucent solution; no odor
- Boiling Point:** - 110°C (230°F)
- Melting Point:** - -7°C (20°F)
- Vapor Pressure:** Vapor pressure of water

<b>Solubility in water:</b>	Soluble
<b>Specific Gravity:</b>	- 1.3
<b>pH:</b>	- 4
<b>Evaporation Rate:</b>	Not applicable

## VII. SPECIAL PRECAUTIONS

### Handling and Storage Precautions:

Keep containers closed. This product is mildly acidic and should be treated as a weak hydrochloric acid solution. Wear rubber gloves, impervious clothing, and goggles if possibility of splashing exists.

## VIII. FIRE PROTECTION INFORMATION

<b>Flash Point:</b>	None
<b>Flammable Limits:</b>	N/A; will not burn.
<b>Extinguishing Media:</b>	Will not burn; use materials appropriate for surrounding fire.
<b>Special Firefighting Procedures:</b>	Cool exposed tanks with water.
<b>Special Fire and Explosion Hazards:</b>	Possible formation of hazardous chlorine compounds.

## IX. TRANSPORTATION REQUIREMENTS

<b>DOT Proper Shipping Name:</b>	N/A
<b>DOT Classification:</b>	N/A
<b>UN/NA Identification: Number:</b>	N/A
<b>Packing Group:</b>	N/A
<b>Other Labels:</b>	N/A

## X. SPILL AND LEAK PROCEDURES

### Precaution if

**Spilled or Released:** Review safety precautions before proceeding with cleanup. Use appropriate personal protection equipment. Dike area around spill to prevent spreading, and use absorbent material to pick up a spill.

**Waste Disposal  
Methods:**

Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product. Dispose of waste in accordance with applicable federal, state, and local laws.

**SALES OFFICE**

For Product Information:  
TEL: 662-494-3055  
FAX: 662-494-2828

Post Office Drawer 1217  
West Point, MS 39773

To Place An Order:  
TEL: 800-953-3585  
FAX: 800-953-3588

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**IMPORTANT**

The information on this Material Safety Data Sheet is believed to be accurate but is not warranted to be so. Protective equipment, health effects, and other related safety measures are based on intended and anticipated product use. Recipients are advised to confirm in advance of need that the information is applicable and suitable to their circumstances.