



Material Safety Data Sheet Poly Aluminium Chloride

Section 1 - Chemical Product and Company Identification

Product Name	: Poly aluminium Chloride
OTHER NAMES	: PAC Solid, PAC, Aluminium chlorohydrate, Aluminium chlorhydroxide, Basic Aluminium chloride, Aluminium hydroxychloride, Poly Aluminium Chloride, Polyaluminium Chloride
Dangerous Goods Class	: None Allocated
Uses	: Poly aluminium chloride is a polyvalent inorganic polymer used as a coagulant in the treatment of potable water, industrial waste water and many other waste water situations.
Appearance	: White to light yellow odourless, hygroscopic powder.

Section 2 - Hazards Identification

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

SWALLOWED: May cause nausea, vomiting and respiratory irritation. EYE: May cause eye irritation. SKIN: May cause irritation with prolonged contact. INHALED: May irritate the mucous membranes. CHRONIC EFFECTS: NO KNOWN EFFECTS.

Section 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	: Poly Aluminium Chloride
CAS Number	: 1327-41-9
Proportion (as aluminium oxide)	: >30%



Section 4 - First Aid Measures

FIRST AID PROCEDURES

- SWALLOWED : Give water to drink. Do not induce vomiting. Seek immediate medical attention.
- EYE : Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.
- SKIN : Wash with soap & water. Remove contaminated clothing, launder clothes before reuse. If irritation persists seek medical advice.
- INHALED : Remove to fresh air. Seek medical attention if irritation persists.

Section 5 - Fire Fighting Measures

Material is non flammable. On burning will emit fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion. EXTINGUISHING MEDIA: Water spray, foam, dry agent (carbon dioxide, dry chemical powder).

Section 6 - Accidental Release Measures

- Precautions : gloves and safety glasses. Avoid the presence of ignition sources, don't smoke.
- Environmental precautions : N/A.
- Cleaning method : collect the product for an eventual re-use or for waste.

Section 7 - Handling and Storage

Store in a cool place out of direct sunlight. Store in well ventilated area. Store away from oxidizing agents and foodstuffs. Prevent severe overheating as overheating may produce hydrogen chloride gas.



Section 8 - Exposure Controls, Personal Protection

Eye Protection : Safety glasses.
Skin Protection : Gloves and protective clothing made from rubber or plastic should be impervious under conditions of use.
Safe protection and hygienic measures : respect the usual precaution measures relative to the handling of chemical products.

Section 9 - Physical and Chemical Properties

Appearance, odour : yellowish powder. Melting Point : Not Available
Boiling Point : Not Available
Bulk Density : 0.65 g/cm³
Vapour Density (air=1) : Not Available Vapour Pressure (20°C) : Not Available Flash Point (Closed cup) : Not Available Flammability Limits (%) : Not Available Autoignition Temp (°C) : Not Available
pH (1% Solution w/v) : 3.5 - 5.0
Solubility in water (g/L) : Soluble

Section 10 - Stability and Reactivity

Hazardous Decomposition Products: N. A.
Hazardous reactions: no one in particular if used correctly.

Section 11 - Toxicological Information

No information available

Section 12 - Ecological Information

Ecotoxicity : Not available.
Environmental Fate : Not available.



Section 13 - Disposal Considerations

Recover the product if possible. Operate according to local regulations.

Section 14 - Transport Information

Road (RID/ADR) : not hazardous.
Rail (RID) : not hazardous.
Air (ICAO/IATA) : not hazardous.
MARINE(IMO/IMDG) : not hazardous.

Section 15 - Regulatory Information

GB 15892- 2003, Water Treatment Chemical- Poly Aluminium Chloride

Section 16 - Additional Information

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations.