

Material Safety Data Sheet
Poly Aluminium Chloride

Section 1 - Chemical Product and Company Identification

PRODUCT IDENTIFICATION:

Product Name: Poly aluminium Chloride

Chemical Name: Poly aluminium Chloride

OTHER NAMES: PAC Solid, PAC, Aluminium chlorohydrate, Aluminium chlorhydroxide, Basic Aluminium chloride, Aluminium hydroxychloride, Poly Aluminium Chloride, Polyaluminium Chloride

UN No.: N/A

Dangerous Goods Class: None Allocated

Subsidiary Risk: None Allocated

Hazchem Code: N/A

Pack Group: 0

EPG: N/A

Poisons Schedule: N/A

Uses: Polyaluminium 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.

1.1 Physical Description / Properties

Appearance: White to light yellow odourless, hygroscopic powder.

Molecular Formula: $[Al_2(OH)_nCl_{6-n}]_m$ ($1 \leq n \leq 5, m \geq 10$)

Boiling Point: N/A deg C

Melting Point: N/A deg C

Vapour Pressure: N/A

Specific Gravity: 1.29 (water = 1)

Flash Point: N/A

PH: 1.8 (58% soln)

Solubility in water: Sol g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit: N/A

Upper Explosion Limit: N/A

1.2 Other Properties

No data available

1.3 Ingredients

Chemical Entity	CAS NO.	Proportions(%)
POLY ALUMINIUM CHLORIDE	[1327-41-9]	100

READ THE ENTIRE MSDS FOR THE COMPLETE HAZARD EVALUATION OF THIS PRODUCT.

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 (Not Intended As Specifications)

Chemical Name: Poly Aluminium Chloride

CAS Number: 1327-41-9

Proportion: >99%

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.

