

PHU DU ENVIRONMENT COMPANY LIMITED	Material Safety Data Sheet Polyaluminium chloride (PAC)	SDS 0001-1 Jan, 02, 2018
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I. Chemical Product and Company Identification

- Product Name: Polyaluminium chloride (PAC)
- CAS#: 1327-41-9
- Chemical Name: Polyaluminium Chloride, Polyaluminium hydrochloride, Polyaluminium hydrochloride sulphate, Polyaluminium Chloride Hydroxide, Aluminum chlorohydrate sulphate

• Contact Information:

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II. Composition and Information on Ingredients

- **Composition:** : Polyaluminium chloride (PAC)
- CAS#: 1327-41-9
- Formula: $[Al_2(OH)_nCl_{6-n}]_m$
- % by Weight: 30%

III. Hazards Identification

- Ingestion Very astringent to mouth, nose & throat
- Contact with eyes Causes eye irritation
- Safety Phrases:

Keep out of reach of children.

In case of contact with eye, wash immediately with plenty of water for 15-20 minutes. Seek medical aid.

Remove contaminated clothes & shoes.

Wash affected area with plenty of water.

If inhaled, remove the victim to fresh air area & support respiration.

Seek Medical Aid immediately for all types of exposure.



IV. First Aid Measures

- Skin Contact: Remove contaminated clothing and wash affected area with sufficient quantity of water for 15-20 minutes. Seek medical aid.

- Eye Contact Immediately irrigate with water for at least 15 minutes. Seek medical assistance immediately
- Inhalation: Remove from contaminated area. Obtain medical attention.
- Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

V. Fire and Explosion Data

- Flammability classification (flammable, highly inflammable or extremely flammable, non-flammable, non-flammable): Not flammable.
- Products of Combustion : Hydro chloride, aluminum oxide.
- Explosive and explosive agents (spark, static electricity, high temperature, impact, friction) Not applicable
- Means and necessary protective clothing when fighting fire: Wear full protective clothing, goggles, masks

VI. Accidental Release Measures

- Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- Large Spill: Stop leak if without risk. Do not get water inside container. Do not touch spilled material.. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.
- Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

VII. Handling and Storage.

- Store indoors away from direct heat or sunlight.
- Avoid extreme temperatures.
- PAC may become unstable when stored for long time at temperatures higher than 40°C
- The storage area should have a non-combustible and corrosion resistant floor.

VIII. Personal Protection

- Eye Protection: Wear glasses
- Body protection: Wear protective clothing, including shoes, gloves, lab coats, aprons or bras, suitable to prevent skin contact.
- Hand protection: Wear protective equipment such as rubber gloves.
- Foot protection: Take rubber boots and other equipment for protection.

IX. Physical and Chemical Properties

- Physical state and appearance: Solid. (Granular solid.)

- Color: Pale yellow.
- pH (5% aqueous solution) 3.0-4.0
- Boiling Point Approx. 120°C
- Solubility in Water 100 % soluble

X. Stability and Reactivity Data

- As supplied it is stable at normal temperature & pressure.
- Avoid contact with bases, chlorides, sulphites, hypochlorites and temperatures above 40°C
- Material to avoid Long term contact with aluminum & alloys, zinc & alloys, carbon & steel
- Hazardous Decomposition Products Hydrogen chloride

XI. Toxicological Information

- In contact with skin: Irritant-after prolonged contact with skin produces sores and possible dermatitis.
- In contact with eyes: Irritates immediately and could cause severe damage.
- Inhalation: Product does not fumes.
- Ingestion: Very astringent to mouth, nose & throat

XII. Ecological Information

- The product tested in various concentrations is found to be entirely harmless to aquatic life up to concentration of 200 mg/litre expressed as Al₂O₃ (corresponding to 1.4 g/l of PAC 10%)

XIII. Disposal Considerations

- Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations

XIV. Transport Information

- Regulatory name: Regulations on the transport of dangerous goods of Vietnam
- Packing: bag
- Decree No. 104/2009 / ND-CP dated 09/11/2009 of the Government: List of dangerous goods and transport of dangerous goods by road motor vehicles

XV. Other Regulatory Information

- Status declaration, registered in the countries of the world
- Hazard classification by country of declaration, registration

- Compliance technical standards

XVI. Other Information

- Date of compilation: 02/ 01/2018
- Name of the organization or individual drafting: PHU DU ENVIRONMENT COMPANY LIMITED
 - Note the reader
- The information in this Chemical Safety Data Sheet is compiled based on the latest knowledge of hazardous chemicals and must be used to implement risk prevention measures.
- Hazardous chemicals in this form may have other hazardous properties depending on the circumstances of use and exposure