



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Poly Aluminium Chloride (PAC) *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 1327-41-9 EC 215-477-2 SIGNAL WORD DANGER

GHS05

Corrosive / Eye Damage

GHS07

Harmful / Irritant

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Poly Aluminium Chloride (PAC)
Product Type	Polyaluminium chloride
Chemical Family	Inorganic aluminium salt coagulant
CAS No.	1327-41-9
EC No.	215-477-2
Intended Use	Water treatment coagulant; industrial flocculant. Industrial / professional use only.
Restrictions on Use	Industrial / professional use as listed on the SPC product page. Confirm grade suitability before regulated or consumer use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/poly-aluminium-chloride-pac
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Met. Corr. 1 (H290); Skin Irrit. 2 (H315); Eye Dam. 1 (H318). Not classified for
unlisted hazard classes based on reviewed source data.

Signal Word

DANGER

GHS Pictograms

GHS05 (Corrosive / Eye Damage) | GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H290 — May be corrosive to metals
- H315 — Causes skin irritation
- H318 — Causes serious eye damage

PRECAUTIONARY — PREVENTION

- P234 — Keep only in original packaging.
- P260 — Do not breathe dust / fume / gas / mist / vapours / spray.
- P264 — Wash hands thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P271 — Use only outdoors or in a well-ventilated area.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P301+P330+P331 — IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P321 — Specific treatment: see first aid instructions (Section 4).



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- P332+P313 — If skin irritation occurs: Get medical advice / attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P390 — Absorb spillage to prevent material damage (corrosive to metals).
- P405 — Store locked up.
- P501 — Dispose of contents / container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Polyaluminium chloride	1327-41-215- 9	477-2	29–32% as Al ₂ O ₃ (common liquid Met. Corr. 1; Skin Irrit. 2; Eye Dam. 1 grades; grade-dependent)	— H290, H315, H318
Water	7732- 18-5	231- 791-2	Balance (liquid grades)	Not classified

Percentages are by weight (% w/w). Exact concentration depends on grade supplied. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air immediately. If symptoms (coughing, irritation) persist, obtain medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention — product causes serious eye damage (H318).
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Acidic corrosive; irrigate affected tissues thoroughly. No specific antidote known.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Product is not combustible. Use extinguishing media appropriate to surrounding fire (water, foam, CO ₂ , dry powder).
Unsuitable Media	Avoid direct high-pressure water jet where it may spread the material.
Specific Hazards	Not combustible. On heating, may release hydrogen chloride and other corrosive / irritating fumes. Dust or fine particulate may form irritating atmospheres. Containers may rupture when exposed to heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not breathe fumes from heated or burning material.
Special Procedures	Evacuate non-essential personnel. Prevent fire-fighting run-off water from entering drains and watercourses. Avoid dust clouds and ignition sources near powder grades.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use corrosion-resistant PPE (gloves, eye/face protection, protective clothing). Ensure adequate ventilation. Keep non-essential personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant release cannot be contained.
Containment / Clean-up	Contain spill using inert absorbent material (e.g. dry sand, vermiculite). Avoid drains. Collect material into labelled, compatible plastic containers for disposal through an approved waste contractor. Wash spill area with water after collection.
Reference to Sections	See Section 8 for PPE details, Section 13 for disposal and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid contact with skin and eyes. Avoid contact with incompatible metals. Handle in corrosion-resistant equipment. Prevent generation of dust or mist where practicable.
Hygiene	Wash hands and exposed skin after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this



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	product.
Storage Conditions	Store in original, tightly closed, corrosion-resistant containers away from alkalis. Keep containers upright and inspect regularly for leakage or damage.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise. Protect from frost (liquid grades).
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine), concentrated alkalis, and reactive metals (aluminium, zinc, magnesium). Refer to supplier SDS for grade-specific incompatibilities.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store away from alkalis and oxidisers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	CAS 1327-41-9 (Polyaluminium chloride): No universally established OEL; follow ALARA / good industrial hygiene practice. Verify local OEL (OSHA/NIOSH/ACGIH/EU/India) if established. CAS 7732-18-5 (Water): No OEL applicable.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control dust, mist or aerosol generation. Ensure general ventilation is adequate. Provide eyewash stations and safety showers near handling areas.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator fitted with a P95/P100 particulate filter or acid-gas cartridge as applicable. Use SCBA for emergency or confined-space situations.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select appropriate thickness and breakthrough time. Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash or transfer operations. Body: chemical-resistant clothing/apron and safety footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow to amber liquid, or pale yellow-white powder — grade-dependent.
Odour	Characteristic (faint acidic).



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Odour Threshold	Not established.
pH	Acidic in aqueous solution; typically 3.5–5.0 at use concentration (grade-dependent).
Melting / Freezing Point	See supplier specification (liquid grades may freeze below 0°C depending on concentration).
Boiling Point / Range	See supplier specification (approximates water at ~100°C for liquid grades).
Flash Point	Not flammable — no flash point.
Auto-ignition Temperature	Not applicable (not flammable).
Flammability Limits	Not applicable (not flammable).
Vapour Pressure	Not established (approximates water vapour pressure for liquid grades).
Vapour Density (air = 1)	Not established.
Relative Density	Approx. 1.1–1.4 for liquid grades (grade-dependent).
Solubility in Water	Soluble / miscible.
Log Pow (Partition Coeff.)	Not established for supplied commercial grade; ionic inorganic salt — expected not to partition into lipids.
Evaporation Rate	Not established.
Viscosity	See supplier specification.
VOC Content	Negligible / nil. Assess under applicable local VOC rules.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above recommended storage temperature, contamination with incompatible materials, and prolonged contact with reactive metals. Keep containers sealed to prevent moisture ingress (powder grades) or evaporative concentration.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated alkalis. Reactive metals (aluminium, zinc) under elevated temperature — not a concern under normal ambient storage or blending.
Hazardous Decomposition	On heating or in fire: may generate hydrogen chloride (HCl) and other chlorinated or aluminium-containing fumes. Carbon oxides may form from organic impurities.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Acidic inorganic salt; irritating / corrosive to mucous membranes. No numeric LD50 for PAC formulation confirmed from reviewed data; see Section 2 classification. Supplier / test confirmation required for precise LD50.
Acute Dermal Toxicity	Causes skin irritation (H315); classified Skin Irrit. 2. No numeric dermal LD50 confirmed from reviewed data.
Acute Inhalation Toxicity	Mist or dust may irritate the respiratory tract. No numeric LC50 for inhalation confirmed from reviewed data. Avoid breathing mist, dust or aerosol.
Skin Irritation	Causes skin irritation (H315 – Skin Irrit. 2). Acidic pH causes erythema and possible mild burns on prolonged contact.
Eye Irritation	Causes serious eye damage (H318 – Eye Dam. 1). May cause corneal damage; seek immediate medical attention.
Sensitisation	No skin or respiratory sensitisation data identified for PAC in reviewed sources; not currently classified.
Carcinogenicity	Not classified as carcinogenic based on reviewed data. Additional numeric endpoint data requires supplier / test confirmation.
Mutagenicity	Not classified as mutagenic / genotoxic based on reviewed data. Additional numeric endpoint data requires supplier / test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic environmental classification identified from reviewed data. Aluminium compounds can be toxic to aquatic organisms at elevated concentrations; avoid uncontrolled release. Obtain supplier / ecotoxicity data for registration or export requirements.
Persistence / Degradability	Inorganic salt; concept of biodegradability does not apply in the conventional sense. Aluminium may accumulate in sediments. If verification required, use supplier, ECHA or PubChem data.
Bioaccumulation	Ionic aluminium species have low log Kow; significant bioaccumulation is not expected. Verify BCF data with supplier where required for regulatory submissions.
Mobility in Soil	Soluble in water; mobile in soil and groundwater. Aluminium may adsorb to soil particles or precipitate at neutral-to-alkaline pH.



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	Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, state and national regulations. Do not pour down drains or into water bodies.
Contaminated Packaging	Empty containers may retain corrosive residues; handle as hazardous until cleaned or disposed of properly. Decontaminate containers before recycling where possible.
Indian Regulations	Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable CPCB / SPCB and pollution-control board requirements. Assign appropriate waste code in consultation with a licensed waste contractor.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 3264	UN 3264	UN 3264
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Polyaluminium Chloride)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Polyaluminium Chloride)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Polyaluminium Chloride)
Class	8	8	8
Packing Group	III	III	III
Marine Pollutant	No	No	—
Tunnel Restriction / EmS	E (ADR tunnel code)	F-A, S-B (IMDG EmS)	—

Applicable to corrosive liquid grades. Powder / non-corrosive grades may not be subject to transport regulations — verify with carrier and current edition of ADR/IMDG/IATA-DGR before shipment. Use UN-certified, Class 8-labelled, compatible containers. Class 8 (Corrosive) placard required — NOT Class 3.



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS/CLP classification in Section 2. Observe applicable workplace chemical, VOC and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable MSIHC Rules, Factories Act, Environment Protection Act, Hazardous Waste Rules (2016), Water Act, and CPCB/SPCB requirements. REACH equivalents under Indian Chemical Rules where applicable.
Other Jurisdictions	Canada: Classify / label under WHMIS 2015 / HPR using Section 2 classification; Canadian sale may require bilingual SDS / label and ingredient disclosure. China: Use applicable GB/T SDS and classification requirements. Australia: Check AICS inventory status before export or import. GCC / Middle East: Observe applicable GHS-aligned local requirements. Regulatory scope requires confirmation of inventory status, local OELs, transport class, waste code and restrictions for each market.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H290 — May be corrosive to metals
- H315 — Causes skin irritation
- H318 — Causes serious eye damage