

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: May 2026

GHS compliant | Rev 1.0 | Prepared: May 2026

GHS05  
Corrosive / Eye DamageGHS07  
Harmful / Irritant**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY**

<b>Product Name</b>	<b>Poly Aluminium Chloride (PAC)</b>
<b>Product Type</b>	Polyaluminium chloride
<b>Chemical Family</b>	Inorganic aluminium salt coagulant
<b>CAS No. (Poly Aluminium Chloride (PAC))</b>	1327-41-9
<b>CAS No. (Other Component)</b>	N/A
<b>Intended Use</b>	Industrial / professional use as listed on the SPC product page.
<b>Restrictions on Use</b>	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
<b>Manufacturer / Supplier</b>	Supreme Petro Chemicals
<b>Address</b>	Periyamet, Chennai - 600 003, Tamil Nadu, India
<b>Emergency Contact</b>	Sudarshan - 8197947045; Sanketh - 8608780096
<b>Email</b>	admin@supremepetrochemicals.com
<b>SDS Revision Date</b>	May 2026
<b>SDS Version</b>	1.0
<b>Product Page URL</b>	<a href="https://www.supremepetrochemicals.com/products/poly-aluminium-chloride-pac">https://www.supremepetrochemicals.com/products/poly-aluminium-chloride-pac</a>

**SECTION 2 HAZARD IDENTIFICATION**

<b>Met. Corr. 1; Skin Irrit. 2; Eye Dam. 1</b>	
<b>H290</b>	H290: May be corrosive to metals
<b>H315</b>	H315: Causes skin irritation
<b>H318</b>	H318: Causes serious eye damage
<b>Other GHS hazard classes</b>	Not classified for unlisted hazard classes based on reviewed source data.
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<b>Signal Word</b>	DANGER
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## 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
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## Precautionary Statements (Prevention):

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

## Precautionary Statements (Response):

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.

## Precautionary Statements (Storage &amp; Disposal):

- P403+P235 — Store in a well-ventilated place. Keep cool.
- 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 or concentration range	GHS Classification
Polyaluminium chloride	1327-41-9	215-477-2	29-32% as Al <sub>2</sub> O <sub>3</sub> for common liquid grades / grade-dependent	Met. Corr. 1; Skin Irrit. 2; Eye Dam. 1
Water	7732-18-5	231-791-2	Balance for liquid grades	Not classified

**Note:** Percentages are by volume. Full text of H-statements listed in Section 16.

## SECTION 4 FIRST AID MEASURES



<b>Inhalation</b>	Move to fresh air. If symptoms persist, obtain medical attention. Do not induce vomiting where aspiration hazard is possible.
<b>Skin Contact</b>	Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist.
<b>Eye Contact</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
<b>Note to Physician</b>	Treat symptomatically based on exposure route and product hazards.

## SECTION 5 FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Not combustible. Use media suitable for surrounding fire; heat may release hydrogen chloride/chlorine-containing fumes.
<b>Unsuitable Media</b>	Direct high-pressure water jet where it may spread the material.
<b>Specific Hazards</b>	Not combustible. Use media suitable for surrounding fire; heat may release hydrogen chloride/chlorine-containing fumes.
<b>Fire &amp; Explosion Risk</b>	Dust or fine particulate may form combustible or irritating atmospheres depending on product. Avoid dust clouds and ignition sources. Containers may rupture when heated.
<b>Protective Equipment for Firefighters</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA).
<b>Special Procedures</b>	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use corrosion-resistant PPE. Contain spill, avoid drains, and collect in compatible plastic containers.
<b>Environmental Precautions</b>	Prevent entry into drains, sewers, soil and watercourses.
<b>Containment Methods</b>	Use corrosion-resistant PPE. Contain spill, avoid drains, and collect in compatible plastic containers.
<b>Clean-up Methods</b>	Collect material into labelled containers for disposal through an approved waste contractor.
<b>Reference to Sections</b>	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

## SECTION 7 HANDLING AND STORAGE

<b>Handling Precautions</b>	Avoid contact with skin/eyes and incompatible metals. Store in corrosion-resistant containers away from alkalis.
<b>Hygiene</b>	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
<b>Storage Conditions</b>	Avoid contact with skin/eyes and incompatible metals. Store in corrosion-resistant containers away from alkalis.
<b>Storage Temperature</b>	Store at ambient temperature unless supplier instructions specify otherwise.
<b>Incompatible Materials</b>	Strong oxidizers and product-specific incompatible substances; see supplier SDS before use.
<b>Packaging</b>	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
<b>Segregation</b>	Segregate from food, drink, animal feed and incompatible chemicals.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component	OEL (8h TWA)	STEL (15 min)	Standard	Notes
Polyaluminium chloride	Use verified local OEL if established; otherwise ALARA/good industrial hygiene	Use verified local STEL/ceiling if established	OSHA/NIOSH/ACGI H/EU/UK/India	CAS 1327-41-9; supplier/regional OEL confirmation required.
Water	Use verified local OEL if established; otherwise ALARA/good industrial hygiene	Use verified local STEL/ceiling if established	OSHA/NIOSH/ACGI H/EU/UK/India	CAS 7732-18-5; supplier/regional OEL confirmation required.

<b>Engineering Controls</b>	Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.
<b>Respiratory Protection</b>	If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies.
<b>Hand Protection</b>	Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.
<b>Eye/Face Protection</b>	Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.
<b>Body Protection</b>	Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.
<b>Hygiene Measures</b>	Provide eyewash and safety shower where appropriate. Wash after handling.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Yellow to amber liquid or pale powder, grade-dependent.
<b>Odour</b>	Characteristic.
<b>Odour Threshold</b>	Not established.
<b>pH</b>	Acidic in aqueous solution.
<b>Melting/Freezing Point</b>	See supplier specification.
<b>Boiling Point / Range</b>	See supplier specification.
<b>Flash Point</b>	Not flammable.
<b>Auto-ignition Temperature</b>	Not established.
<b>Flammability Limits</b>	Not established.
<b>Vapour Pressure</b>	Not established.
<b>Vapour Density</b>	Not established.
<b>Relative Density</b>	Approx. 1.1-1.4 for liquid grades.
<b>Solubility in Water</b>	Soluble / miscible.
<b>Log Pow (Partition Coeff)</b>	Not established for supplied commercial grade.
<b>Evaporation Rate</b>	Not established.
<b>Viscosity</b>	See supplier specification.
<b>VOC Content</b>	Assess under applicable local VOC rules.



Reactivity	Stable under recommended handling and storage conditions.
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## SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl <sub>3</sub> ) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire.
Hazardous Reactions	No hazardous reactions under normal storage unless noted by product reactivity.
Possibility of Hazardous React.	Will not occur under normal conditions when stored and handled correctly.

## SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Acidic coagulant; causes serious eye damage and skin irritation. Mist may irritate respiratory tract.
Acute Dermal Toxicity	Acidic coagulant; causes serious eye damage and skin irritation. Mist may irritate respiratory tract.
Acute Inhalation Toxicity	Acidic coagulant; causes serious eye damage and skin irritation. Mist may irritate respiratory tract.
Skin Irritation	Acidic coagulant; causes serious eye damage and skin irritation. Mist may irritate respiratory tract.
Eye Irritation	Acidic coagulant; causes serious eye damage and skin irritation. Mist may irritate respiratory tract.
Sensitisation	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Specific Target Organ (Single)	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Specific Target Organ (Repeat)	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Reproductive Toxicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Aspiration Hazard	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Carcinogenicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
Mutagenicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.

## SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity (Acute)	No aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity was not universally verified; avoid release.
Aquatic Toxicity (Chronic)	No chronic aquatic classification identified in Section 2. Obtain supplier/ecotoxicity data if needed for registration or export.
Persistence / Degradability	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.
Bioaccumulation	Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data.



<b>Mobility in Soil</b>	Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater.
<b>Other Adverse Effects</b>	Avoid uncontrolled release to the environment.
<b>Environmental Regulations</b>	Manage releases and waste under applicable local environmental regulations.

### SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste from Product</b>	Dispose of contents through an authorized waste contractor in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers may retain residues; handle as hazardous until cleaned or disposed.
<b>European Waste Code</b>	Assign waste code according to actual process and local regulation.
<b>Indian Regulations</b>	Follow local hazardous waste and pollution control requirements.

### SECTION 14 TRANSPORT INFORMATION

Parameter	UN / ADR (Road)	IMDG (Sea)	IATA (Air)	Notes
<b>UN Number</b>	UN 3264	UN 3264	UN 3264	Use for corrosive liquid grades; powder/non-corrosive grades may differ
<b>Proper Shipping Name</b>	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)	
<b>Class</b>	8	8	8	Transport class
<b>Packing Group</b>	III	III	III	
<b>Marine Pollutant</b>	No	No	—	
<b>Tunnel Restriction</b>	E	—	—	ADR
<b>EmS (Sea)</b>	—	F-A, S-B	—	IMDG
<b>Special Provisions</b>	Follow applicable ADR requirements.	Follow applicable IMDG requirements.	Follow applicable IATA requirements.	Verify current carrier rules before shipment

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 3264, PG II, and product name.

### SECTION 15 REGULATORY INFORMATION

<b>EU / REACH</b>	Observe REACH and CLP requirements where applicable.
<b>EU CLP Regulation</b>	Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2.
<b>EU Directive</b>	Observe applicable workplace chemical, VOC and environmental requirements.
<b>OSHA (USA)</b>	Prepared in OSHA HCS/HazCom aligned 16-section SDS format.
<b>India</b>	Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements.
<b>China (GB Standards)</b>	Use applicable GB/T SDS and classification requirements where marketed.
<b>Middle East / GCC</b>	Observe applicable GHS-aligned local requirements.



<b>TSCA (USA)</b>	Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation.
<b>Australia (AICS)</b>	Check inventory status before export or import.
<b>Special Notes</b>	No product-specific special note beyond the classification in Section 2.
<b>Canada WHMIS / HPR</b>	Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure.
<b>Regulatory Scope Limitation</b>	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

## SECTION 16 OTHER INFORMATION

### Full Text of H-Statements:

- H290 - May be corrosive to metals
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
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<b>Prepared By</b>	Supreme Petro Chemicals - Technical Department
<b>SDS Standard</b>	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR 16-section SDS format
<b>Revision Date</b>	22 May 2026
<b>Version</b>	1.0
<b>Replaces Version</b>	N/A - Initial Issue
<b>Key Sources</b>	SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed May 2026.
<b>Audit Correction Note</b>	Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.

### DISCLAIMER

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