



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

Polyacrylamide (PAM)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Polyacrylamide (Anionic Type)
- Product Number: PAM-CAS9003058-202609
- Brand: SIGALD
- CAS-No.: 9003-05-8
- Synonyms: PAM; Poly(acrylamide); Anionic Polyacrylamide
- Chemical Family: Polyamide Polymer

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses & Restrictions

- Identified Uses: Water treatment (flocculant, coagulant aid); oilfield drilling fluid additive; papermaking retention aid; sludge dewatering agent.
- Uses Advised Against: Direct oral consumption; not for food contact without approval.

SECTION 2: Hazards Identification

2.1 GHS Classification: Skin irritation (Category 3); Eye irritation (Category 3)
2.2 GHS Label Elements

- Hazard Pictogram: None
- Signal Word: WARNING
- Hazard Statements: H316 (Causes mild skin irritation); H320 (Causes mild eye irritation)
- Precautionary Statements: P264, P280, P305+P351+P338

2.3 Physical/Chemical Hazards: Non-flammable, non-explosive; stable under normal conditions; dust may cause slight respiratory irritation.
2.4 Health Hazards: Mild skin/eye irritation in sensitive individuals; inhalation of dust may induce coughing; no acute/chronic toxicity.
2.5 Environmental Hazards: Low toxicity to aquatic organisms; biodegradable (slow rate); no eutrophication risk.

SECTION 3: Composition/Information on Ingredients

- Substance/Mixture: Pure Substance (Polymer) | Component | Content (w/w) | CAS-No. | Hazard Classification | |-----|-----|-----|-----| Anionic



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Polyacrylamide | $\geq 88.0\%$ | 9003-05-8 | Skin Irrit. 3; Eye Irrit. 3 | | Residual Acrylamide Monomer | $\leq 0.05\%$ | 79-06-1 | Carc. 2 (Trace amount, no practical hazard) |

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; avoid dust inhalation; consult a doctor if coughing persists.
- Skin Contact: Rinse skin with plenty of running water for 5-10 minutes; wash contaminated clothing before reuse.
- Eye Contact: Rinse eyes thoroughly with water/normal saline for 10 minutes; remove contact lenses if present; consult a doctor if irritation continues.
- Swallowed: Rinse mouth with water; do not induce vomiting; drink plenty of water to dilute; seek medical attention if abdominal discomfort occurs.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder.
- Unsuitable Media: No restrictions.
- Special Hazards: Non-combustible; decomposes above 280°C releasing toxic fumes (nitrogen oxides, carbon oxides).
- Firefighter Advice: Wear standard fire-fighting gear; cool containers with water spray if involved in fire; wear SCBA for large-scale decomposition.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear nitrile gloves, safety glasses, and dust mask (FFP1) to avoid dust contact/inhalation.
- Environmental Precautions: Prevent runoff into sewers/streams; sweep up spilled powder to avoid aquatic organism exposure.
- Cleanup: Small spill - sweep into sealed containers for reuse or disposal; large spill - transfer to corrosion-resistant tanks, avoid dust dispersion.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; avoid generating dust; use wet method to reduce dust; wash hands after handling.
- Storage: Cool, dry warehouse (5-30°C); keep container tightly closed; avoid moisture, direct sunlight, and high humidity; store separately from strong acids/oxidizing agents.
- Shelf Life: 24 months (unopened, specified conditions); 6 months after opening.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Safety glasses, nitrile gloves, and dust mask (FFP1) for routine handling; protective clothing for large-scale operations.
- Engineering Controls: Local exhaust ventilation for dust-generating processes; basic ventilation for general handling.

SECTION 9: Physical and Chemical Properties

- Physical State: Solid (granular powder); Color: White to off-white; Odor: Odorless



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- pH (1% Solution): 6.0-8.0; Melting Point: >280°C (decomposes); Solubility: Soluble in water (slow dissolution)
- Density (25°C): 1.30-1.40 g/cm³; Particle Size: 20-80 mesh; Vapor Pressure: < 0.1 hPa (25°C)

SECTION 10: Stability and Reactivity

- Stability: Stable under normal storage/handling; no polymerization risk.
- Incompatibilities: Strong acids (pH <3), strong oxidizing agents, high-concentration metal salts.
- Hazardous Decomposition Products: NO_x, CO, CO₂ (above 280°C).

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): > 10,000 mg/kg; Dermal (Rabbit, LD₅₀): > 20,000 mg/kg
- Skin/Eye Irritation: Mild irritation, reversible within 24-48 hours.
- Carcinogenicity: Not classified as carcinogenic by IARC, EPA, or NTP (residual monomer content meets safety limits).

SECTION 12: Ecological Information

- Fish (Zebrafish, LC₅₀): > 5000 mg/L (96h); Daphnia (EC₅₀): > 1000 mg/L (48h)
- Biodegradability: Biodegradation rate > 50% in 90 days (OECD 301B test).

SECTION 13: Disposal Considerations

- Product Waste: Classified as non-hazardous waste; dispose via licensed waste treatment facilities or recycle.
- Packaging Waste: Rinse thoroughly; recycle as non-hazardous waste or dispose of as municipal solid waste.

SECTION 14: Transport Information

- UN Number: - (Not dangerous goods)
- Transport Class: -; Packaging Group: -
- UN Proper Shipping Name: Non-dangerous goods (Polyacrylamide)
- Special Precautions: Transport in sealed containers; avoid moisture and physical damage; no special transport conditions.

SECTION 15: Regulatory Information

- National Regulations: Complies with China Hazardous Chemical Safety Management Regulation (non-hazardous); GB/T 17514-2017 (industrial standard).
- International Regulations: GHS Rev.9 (Irritation 3); REACH (not in SVHC List); TSCA (listed).

SECTION 16: Other Information

- Revision Date: 25 SEP 2025
- Disclaimer: Based on current scientific knowledge; supplier not liable for improper use.