



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

Polyanionic Cellulose (PAC)

SDS No.: DY-PAC-031 • Version: 3.0 • Revision date: 2025-09-18

GHS classification	Not classified as hazardous
Primary hazards	Nuisance dust; may form combustible dust clouds when finely divided
Recommended PPE	Safety glasses; gloves as needed; N95/FFP2 if dusty
Shelf life	24 months (cool, dry, sealed)
Packaging	25 kg bags; big-bags on pallets (per order)
Intended use	Drilling-fluid additive; rheology modifier; thickener

Contents

SECTION 1. Identification of the substance and of the company/undertaking

Product identifier	Polyanionic Cellulose (PAC)
Synonyms	PAC; CMC derivative (LV/HV grades)
CAS No.	9004-32-4
Recommended use	Drilling-fluid additive; rheology modifier; thickener
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD
Address	Room 1504, Building A, Rising Times, Puyang, Henan, China
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SECTION 2. Hazards identification

- GHS classification: Not classified as hazardous.
- Label: No signal word/pictograms required.
- Combustible dust: Fine particles may form explosive dust–air mixtures; minimize dust and ignition sources.
- Other hazards: Hygroscopic; may clump on moisture exposure.

SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Polyanionic cellulose	9004-32-4	≥ 99% (typical)	Polymer; not classified

SECTION 4. First aid measures

- General: If symptoms persist, get medical advice/attention.
- Eyes: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do.
- Skin: Wash with soap and water; remove contaminated clothing before reuse.
- Inhalation: Move to fresh air; keep comfortable for breathing.
- Ingestion: Rinse mouth; do not induce vomiting unless instructed by medical personnel.

SECTION 5. Firefighting measures

- Suitable media: Water spray, foam, dry chemical or CO₂.
- Specific hazards: Combustible dust if dispersed and ignited; thermal decomposition may produce CO/CO₂.
- Protective equipment: Self-contained breathing apparatus and full protective gear.

SECTION 6. Accidental release measures

- Avoid dust formation; provide ventilation; eliminate ignition sources.
- Vacuum or carefully sweep; avoid dry sweeping that creates dust clouds; wet-clean as appropriate.
- Wear eye protection and a particulate respirator if dusty.

SECTION 7. Handling and storage

- Handling: Minimize airborne dust; ground/bond equipment; good housekeeping for dust control.
- Storage: Keep tightly closed in a cool, dry, well-ventilated place; protect from moisture; keep away from strong oxidizers.

SECTION 8. Exposure controls / personal protection

- Exposure limits: No specific OEL. Maintain total dust <10 mg/m³; respirable <3 mg/m³ as general guidance.
- Engineering controls: Local exhaust in dusty areas; explosion-proof equipment for bulk handling.
- PPE: Safety glasses; gloves as needed; N95/FFP2 respirator if dust present.
- Hygiene: Wash hands after handling; no eating/drinking/smoking during use.

SECTION 9. Physical and chemical properties

Property	Value
Appearance	Off-white to light-yellow powder
Odor	Odorless
pH (1% solution)	5–11 (grade-dependent)
Solubility	Soluble in water
Bulk density	0.4–0.9 g/cm ³ (typical)
Viscosity (aq. solution)	Grade-dependent; see product COA
Flammability	May burn at elevated temperature; combustible dust hazard
Auto-ignition	Not determined

SECTION 10. Stability and reactivity

- Stable under normal conditions.
- Avoid dust, moisture, heat and ignition sources.
- Incompatible materials: strong oxidizing agents.
- Hazardous decomposition products: CO and CO₂.

SECTION 11. Toxicological information

- Low acute toxicity expected. Mechanical irritation possible from dust. Not listed by IARC/NTP/OSHA.

SECTION 12. Ecological information

- Biodegradable polysaccharide; not expected to bioaccumulate. Avoid release of large quantities to environment.

SECTION 13. Disposal considerations

- Dispose in accordance with local/regional regulations. Not a hazardous waste as supplied. Empty containers may retain residue.

SECTION 14. Transport information

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID	—	Not regulated	—	Non-hazardous goods
IMDG	—	Not regulated	—	Not a marine pollutant
IATA	—	Not regulated	—	—

SECTION 15. Regulatory information

- US TSCA: Listed. Canada DSL: Listed. EU CLP: Not classified. China IECSC: Listed/Existing.

SECTION 16. Other information

Issue date: 2025-09-18 • Supersedes: N/A (new formatted release)

Disclaimer: Information believed accurate but not exhaustive; use as guidance.

Revision History

Version	Date	Change summary	Approved by
3.0	2025-09-18	International letterhead; optimized content; EN/RU	QA