



## HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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# SAFETY DATA SHEET (SDS)

## Amphoteric Polymer DYJN-27

SDS No.: DYJN-27 • Version: 2.9 • Revision date: 2025-10-10

GHS classification	Not classified as hazardous under GHS.
Primary hazards	Nonflammable and nonexplosive under normal conditions; dust may cause mechanical irritation to eyes/respiratory tract; slippery when wet.
Recommended PPE	Safety glasses (EN166) or dust-resistant goggles; nitrile gloves; standard protective clothing; use P2/P95 respirator when visible dust is generated.
Shelf life	24 months in unopened original packaging at 5–35 °C; keep dry and away from sunlight.
Packaging	25 kg multi-layer bags (typical). Keep packages sealed and dry; store cool, well-ventilated; keep away from heat and incompatible materials.
Intended use	Amphoteric polymer additive for drilling fluids (industrial use only).

### Contents

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

Product identifier	Amphoteric Polymer DYJN-27
Synonyms	Amphoteric (zwitterionic) polymer; DYJN-27
Recommended use	Oilfield chemicals
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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## SECTION 2. Hazards identification

- According to GHS: No data for classification in the source document. Treat as non-classified chemical with caution.  
Emergency overview: Limited hazard information available; avoid dust generation and contact with eyes/skin.  
Other hazards: Fine dust may cause mechanical irritation; wet spills can be slippery.

## SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Cationic monomer	109882-76-0	20%	
Acrylamide	122775-19-3	40%	
Quaternary Ammonium Salt	5039-78-1	30%	
Water	7732-18-5	10%	

## SECTION 4. First aid measures

- Skin: Rinse thoroughly with plenty of flowing water; remove contaminated clothing.  
Eyes: Flush with water or saline for at least 15 minutes; seek medical attention if irritation persists.  
Inhalation: Move to fresh air; keep airways open; oxygen if needed; artificial respiration if no breathing; seek medical care.  
Ingestion: Rinse mouth with small amount of water; do NOT induce vomiting unless directed by medical personnel; seek medical attention.

## SECTION 5. Firefighting measures

- Hazard characteristics: May burn when exposed to open flame or prolonged heat; irritating fumes may be released.  
Hazardous combustion products: Carbon oxides; black smoke of unknown composition may occur in poor combustion.

Extinguishing media: Water mist, foam, dry powder, CO<sub>2</sub>, or sand.

Firefighting precautions: Wear self-contained breathing apparatus and full protective clothing; fight from upwind.

## SECTION 6. Accidental release measures

- Personal precautions: Avoid contact with eyes/skin; use PPE.  
Environmental precautions: Follow regulations for spill reporting and waste handling; prevent entry into drains.  
Cleanup: Contain spill with absorbent; sweep or vacuum carefully to avoid dust; place in approved container for disposal per Section 13.

## SECTION 7. Handling and storage

- Handling: Provide good natural ventilation; avoid dust; keep away from heat/ignition sources; no smoking; avoid oxidants.  
Storage: Cool, dry, well-ventilated; RH < 75%; keep sealed to prevent moisture; segregate from flammables, oxidants, strong alkalis.  
Transport: Prevent container leakage/fall/damage; avoid mixing with incompatible goods; protect from sun/rain/high temperature.

## SECTION 8. Exposure controls / personal protection

- PPE: Safety goggles, general protective clothing and shoes, suitable gloves; respiratory protection if long exposure or dust present.  
Ventilation: Use local exhaust to keep dust below applicable limits where defined.

## SECTION 9. Physical and chemical properties

- Typical properties are summarized in the property table; unlisted parameters are not available.

Property	Value
Appearance	White or light yellow powder
Not determined	Not determined
Aqueous solution pH	5.0–7.0
Bulk density	0.95–1.05
Solubility	Soluble in water
Melting point	Not determined
Boiling point	Not determined

## SECTION 10. Stability and reactivity

- Stability: Stable under normal conditions; polymerization hazard: none expected.  
Incompatibilities: Flammables/combustibles, strong alkalis, strong oxidizers.  
Conditions to avoid: Excess heat, open flames, dust clouds.  
Decomposition: Carbon oxides; irritating fumes at high temperature.

## SECTION 11. Toxicological information

- Skin: Slightly irritating with long-term contact.  
Eye: May cause irritation to soft tissues.  
Other toxicological data: Carcinogenic effects not listed; no additional data available.

## SECTION 12. Ecological information

- Ecotoxicity/Persistence/Bioaccumulation/Mobility: No data available; avoid uncontrolled release.

## SECTION 13. Disposal considerations

- Dispose of contents/container in accordance with local, state, and federal regulations; avoid discharge to sewers or natural waters.

## SECTION 14. Transport information

- RID/ADR: Non-hazardous for transport (Not regulated).  
IATA: Non-hazardous for air transport (Not regulated).  
IMDG: Non-hazardous for sea transport (Not regulated).

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID (Road/Rail)	—	Non-Hazardous / Not regulated	—	Prevent dust release; keep dry and properly packaged.
IMDG (Sea)	—	Not regulated	—	Not a marine pollutant as supplied.
IATA (Air)	—	Not regulated	—	Prevent dust release; observe airline rules.

## SECTION 15. Regulatory information

- Regulatory references: PRC Environmental Protection Law (2015); PRC Law on Prevention and Control of Occupational Diseases (2011); GBZ 2-2007 Occupational Exposure Limits; and applicable GHS/CLP principles.

## SECTION 16. Other information

- Issue date: 2025-10-10 • Supersedes: —  
Disclaimer: Information is believed accurate but provided without warranty; users must determine suitability for their application.

Issue date: 2025-10-10 • Supersedes: N/A

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## Revision History

Version	Date	Change summary	Approved by
2.9	2025-10-10	Initial Amphoteric Polymer DYJN-27 release using master template	QA