



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

Biomass Synthetic Resin Fluid Loss Reducer — DYJ

SDS No.: DY-DYJ502 • Version: 1.3 • Revision date: 2025-09-18

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

Product identifier	Biomass Synthetic Resin Fluid Loss Reducer — DYJ
Recommended use	Fluid loss reducer for water- based drilling fluids (WBM)
Restrictions on use	Not for food, drug or household applications
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD
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SECTION 2. Hazards identification

Classification (GHS/CLP): Not classified as hazardous based on available information.

Combustible dust: Organic powder may form explosive dust–air mixtures; product becomes slippery when wet.

SECTION 3. Composition / information on ingredients

Component	CAS No.	Content	Note
Lignin (biomass- derived polymer)	8068-05-1	~80%	Primary active
Other inert / functional	—	Balance	Non- hazardous;

SECTION 4. First aid measures

- Eyes: Rinse cautiously with water; remove contact lenses if present. Seek medical attention if irritation persists.
- Skin: Wash with soap and water; launder contaminated clothing before reuse.
- Inhalation: Move to fresh air; if symptoms occur, get medical advice.
- Ingestion: Rinse mouth. Do NOT induce vomiting.

SECTION 5. Firefighting measures

- Suitable media: water spray, foam, dry chemical or CO₂.
- Specific hazards: combustible dust if dispersed; slippery residues after water application.

SECTION 6. Accidental release measures

- Avoid dust formation; ensure ventilation; remove ignition sources. Vacuum or carefully sweep; wet- clean residues; prevent entry to drains.

SECTION 7. Handling and storage

- Minimize dust; store cool, dry and ventilated; keep container tightly closed; protect from moisture; keep away from strong oxidizers.

SECTION 8. Exposure controls / personal protection

- No product- specific OEL. Guidance: total dust <10 mg/m³; respirable <3 mg/m³. PPE: safety glasses; gloves; particulate respirator if dusty.

SECTION 9. Physical and chemical properties

Property	Value
Appearance and Characteristics	Brownish-brown free-flowing powder
Odor	Not available.
pH	8
Melting/Freezing Point (°C)	257
Boiling Point / Initial Boiling Point / Boiling Range (°C)	Not available.

Autoignition Temperature (°C)	Not available.
Flash Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Explosion Limits [% (volume fraction)]	20
Evaporation Rate [n-Butyl acetate=1]	Not available.
Vapor Pressure (kPa)	Not available.
Flammability (solid, gas)	Not available.
Relative Density (water=1)	0.9 g/mL at 25 °C (lit.)
Vapor Density (air=1)	Not available.
Odor Threshold (mg/m ³)	Not available.
n-Octanol/Water Partition Coefficient (log P)	Not available.
Solubility	Negligible
Viscosity	Not available.

SECTION 10. Stability and reactivity

- Stability: Stable under normal conditions.
- Conditions to avoid: high temperature, ignition sources, formation of dust clouds, moisture (caking/handling issues).
- Incompatible materials: strong oxidizers; strong acids/alkalis may affect product integrity.
- Hazardous decomposition: CO/CO₂ and irritating fumes at high temperature.
- Combustible dust management: follow housekeeping to minimize dust accumulation; bond/ground handling systems.

SECTION 11. Toxicological information

- Likely routes of exposure: inhalation of dust, eye/skin contact, accidental ingestion.
- Acute toxicity: low based on available information; mechanical irritation of eyes/airways possible.
- Skin/eye irritation: temporary mechanical irritation may occur with dust; rinse with water.
- Sensitization/CMR: no evidence from components above disclosure thresholds.
- Repeated exposure: maintain dust below occupational exposure guidance values.

SECTION 12. Ecological information

- Ecotoxicity: not expected to be acutely hazardous to aquatic life at typical use concentrations.
- Persistence/degradability: lignin-based polymer exhibits inherent biodegradability over time.
- Bioaccumulation: not expected to bioaccumulate.
- Environmental precautions: avoid uncontrolled releases to the environment.

SECTION 13. Disposal considerations

- Dispose of contents/containers in accordance with local/regional regulations.
- Do not discharge to drains or surface waters.
- Empty, dry packaging may be recycled where allowed; decontaminate before reuse.

SECTION 14. Transport information

- UN number: Not applicable. Proper shipping name: Not regulated.
- ADR/IMDG/IATA: Not regulated as dangerous goods.
- Special precautions: keep dry; prevent package damage; minimize dust during handling.

SECTION 15. Regulatory information

- Supplied as a non-hazardous mixture; general chemical safety requirements apply.
- Based on available information, no components are present above applicable SVHC or disclosure thresholds.
- Users must ensure conformity with local regulations and sector-specific requirements.

SECTION 16. Other information

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

Disclaimer: Information is believed accurate as of the issue date but not exhaustive; users must ensure suitability and compliance.