



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

DYFSJ Dispersant Friction Reducer

SDS No.: DYFSJ • 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 | Dispersant and friction-reducing additive for cement slurries (industrial use only). |

Contents

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

| | |
|--------------------|--|
| Product identifier | DYFSJ Dispersant Friction Reducer |
| Synonyms | Friction reducing additive; dispersant for oil well cement |
| Recommended use | Cement slurry additive / dispersing agent |
| Supplier | HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD |

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SECTION 2. Hazards identification

- Hazard overview: May cause irritation to human body (eyes/skin/respiratory) if mishandled. Wet material can create slip hazard.
 GHS classification/label elements: Not classified; no signal word/pictograms required.
 Precautionary advice: Avoid breathing dust; use local exhaust; wear eye protection and suitable gloves for prolonged handling.

SECTION 3. Composition / information on ingredients

| Substance | CAS No. | Concentration | Notes |
|------------------------------------|-----------|---------------|-------------------------------------|
| Naphthalene formaldehyde sulfonate | 9084-06-4 | 100% | Primary component per supplier MSDS |

SECTION 4. First aid measures

- Inhalation: Remove to fresh air; obtain medical attention if respiratory irritation develops or breathing becomes difficult.
 Ingestion: Rinse mouth with water; drink water; if large quantities were ingested, seek medical advice.
 Eyes: Flush with water for at least 15 minutes; seek medical attention if irritation persists.
 Skin: Wash with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if irritation persists.

SECTION 5. Firefighting measures

- Flash point/LEL/UEL/Auto-ignition: Not determined.
 Extinguishing media: Water fog, carbon dioxide, sand, dry chemical.
 Special firefighting procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing; evacuate area and fight fire from a safe distance.
 Hazardous combustion products: Oxides of carbon.

SECTION 6. Accidental release measures

- Personal precautions: Wear specified protective equipment; surfaces become slippery if product contacts water.
Cleanup: Sweep, scoop, or vacuum spilled material while avoiding dust dispersion; place in suitable container(s) for reuse or disposal.

SECTION 7. Handling and storage

- Handling: Wear specified PPE; use only spark-proof/explosion-proof tools and equipment.
Storage: Keep container in a well-ventilated area; keep away from incompatible materials and ignition sources.

SECTION 8. Exposure controls / personal protection

- Engineering controls: Use in well-ventilated areas; provide sufficient ventilation to keep dust concentrations below acceptable exposure limits.
Personal protective equipment: Dust mask, safety glasses, rubber gloves, coveralls.

SECTION 9. Physical and chemical properties

- Key properties: Solid; orange-yellow or reddish-brown powder; odorless; specific gravity 1.40–1.46; soluble in water. Other parameters: see property table; many are not determined in the source MSDS.

| Property | Value |
|---------------------------------------|---|
| Appearance / Odor | Orange-yellow to reddish-brown powder; odorless |
| Not determined | Not determined |
| Specific gravity (g/cm ³) | 1.40–1.46 |
| Solubility in water | Soluble |
| Vapor pressure | Not determined |
| Vapor density (air=1) | Not determined |
| Evaporation rate | Not determined |
| Boiling point | Not determined |
| Freezing point | Not determined |
| Odor threshold | Not determined |
| Coefficient (water/oil distribution) | Not determined |
| Flash point | Not determined |

Lower/Upper explosion limits

Not determined / Not determined

Auto-ignition temperature

Not determined

SECTION 10. Stability and reactivity

- Stability: Stable under normal conditions.
Incompatibility/conditions of reactivity: Unknown in source; avoid strong oxidizers as a precaution.
Possibility of hazardous reactions: Will not occur under recommended handling.
Hazardous decomposition products: Carbon monoxide and carbon dioxide.

SECTION 11. Toxicological information

- Primary route: Skin contact.
Acute overexposure: Inhalation—respiratory irritation possible; ingestion—stomach discomfort; eyes—irritation/inflammation; skin—prolonged contact may cause mild irritation.
Chronic effects/Sensitization/Carcinogenicity/Reproductive toxicity: Not determined.

SECTION 12. Ecological information

- OCNS category (offshore): Estimated Category 1 per source MSDS. Avoid uncontrolled release to the environment.

SECTION 13. Disposal considerations

- Waste disposal: Disposal should be made in accordance with EC, national and local regulations.

SECTION 14. Transport information

- Shipping name: Not Restricted; UN number: NA; ICAO/IATA: NA.

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

IATA (Air)

—

Not Restricted
(Not regulated)

—

Prevent dust
release; observe
airline rules.

SECTION 15. Regulatory information

- Label: Not Restricted; Classification/Symbol: NA; Risk/Safety phrases: NA.

SECTION 16. Other information

- Disclaimer: Information is believed to be accurate and reliable but is provided without warranty; users must determine suitability for their purposes.

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

Disclaimer: The information in this SDS is believed to be accurate and is provided without warranty; users are responsible for determining suitability for their specific applications.

Revision History

| Version | Date | Change summary | Approved by |
|---------|------------|--|-------------|
| 2.9 | 2025-10-10 | Initial DYFSJ release using master template | QA |