



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

Non-Fluorescent Biomass Lubricant DYZYRH

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

| | |
|--------------------|---|
| GHS classification | Not classified as hazardous under GHS. |
| Primary hazards | Causes skin irritation; harmful to aquatic life with long- lasting effects; mists may irritate respiratory tract; surfaces slippery when wet. |
| Recommended PPE | Chemical splash goggles; butyl or nitrile gloves; protective clothing; use P2/P95 respirator if aerosols/mists may form. |
| Shelf life | 24 months in unopened original packaging at 5–35 °C; keep dry and away from sunlight. |
| Packaging | 200 kg drums / 25 kg pails (typical). Store tightly closed; keep away from oxidizers; prevent release to the environment. |
| Intended use | Non- fluorescent biomass lubricant for drilling fluids (industrial use only). |

Contents

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

| | |
|--------------------|--|
| Product identifier | Non-Fluorescent Biomass Lubricant DYZYRH |
| Synonyms | C12–22 alkyl butyl ether mixture |
| Recommended use | Oilfield chemicals |
| Supplier | HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD |
| Address | Room 1504, Building A, Rising Times, Puyang City, Henan, China |

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|---------|--------------------------------|
| Email | info@dongyuchemical.com |
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SECTION 2. Hazards identification

- Irritating to the skin; severe toxicity to aquatic organisms. Appearance: flowing fluid. Main component: C12–22 alkyl butyl ether.

SECTION 3. Composition / information on ingredients

| Substance | CAS No. | Concentration | Notes |
|------------------------------------|---------|---------------|-------|
| C12–22 alkyl butyl ether (mixture) | — | 100% | |

SECTION 4. First aid measures

- Skin: Remove contaminated clothing; rinse with plenty of water. Eyes: Rinse with running water or saline and seek immediate medical care. Inhalation: Non-volatile, but in smoke/aerosols move to fresh air; oxygen/artificial respiration as needed. Ingestion: Do not induce vomiting; seek medical attention immediately.

SECTION 5. Firefighting measures

- Extinguishing media: mist water, dry powder, foam, CO₂.

SECTION 6. Accidental release measures

- Personal protection: Use appropriate PPE. Environmental precautions: Do not release into environment. Cleanup: Absorb with inert materials (sand, silica, universal absorbent, sawdust), dispose per local regulations.

SECTION 7. Handling and storage

- Operate carefully; avoid direct skin/eye contact; general fire prevention measures; store under general conditions; careful opening of containers.

SECTION 8. Exposure controls / personal protection

- Respiratory protection generally not required; if aerosols/smoke, use SCBA or oxygen respirator with type A filter. Hands: Butyl rubber (≥ 0.5 mm, up to 480 min) or nitrile (≥ 0.35 mm, up to 480 min); splash protection—natural rubber (≥ 0.5 mm, ~ 120 min). Eyes: Safety glasses. Body: Protective clothing; follow industrial hygiene practices.

SECTION 9. Physical and chemical properties

- Physical/chemical data summarized in the property table (flash point >130 °C; density 0.84 g/cm³; viscosity ~ 31 mm²/s; limited water solubility ~ 2.9 mg/L).

| Property | Value |
|----------------------------------|---------------------------------|
| Appearance @20 °C / Color / Odor | Liquid; limpid; 'clear' odor |
| Not determined | Not determined |
| Melting point | 0.9–11.3 °C |
| Pour point / Cloud point | 6 °C / 4.3 °C |
| Boiling point | ≈ 268 °C |
| Flash point (PMCC, closed) | >130 °C |
| Self-ignition temperature | ≈ 242 °C |
| Density (20 °C) | 0.84 g/cm ³ |
| Water solubility (20 °C) | ≈ 2.9 mg/L (OECD 105) |
| Kinematic viscosity (20 °C) | ≈ 31 mm ² /s |

SECTION 10. Stability and reactivity

- Stable; no dangerous reactions expected under normal storage.

SECTION 11. Toxicological information

- Toxicology (literature): Acute oral LD50 (rat) > 2000 mg/kg; skin irritation (rabbit) irritating; eye irritation (rabbit) non-irritating; no sensitization; no mutagenicity.

SECTION 12. Ecological information

- Biodegradable (>60% in 28 days per literature); aquatic toxicity high: LC50 (zebrafish) <1 mg/L (96 h); EC50 (Daphnia) <1 mg/L (48 h); EC50 (algae) <1 mg/L (72 h).

SECTION 13. Disposal considerations

- Follow national/local regulations; incineration possible where permitted.

SECTION 14. Transport information

- Not classified as dangerous freight; packaged in barrels; no special shipping requirements.

| Mode | UN/ID | Proper shipping name | Class/P.G. | Comments |
|----------------------------------|-------|----------------------|------------|--|
| Dangerous freight classification | — | No (Not dangerous) | — | Ship in barrels; avoid mixing with acids; keep closed. |

SECTION 15. Regulatory information

- Follow PRC chemical management regulations and workplace safety provisions cited in the source.

SECTION 16. Other information

- Information accurate to supplier knowledge; no warranty; users must ensure suitability.

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 Non-Fluorescent Biomass Lubricant DYZYRH release using master template | QA |