



## HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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# SAFETY DATA SHEET (SDS)

## Organic Lignite DYOL-H3

SDS No.: DYOL-H3 • 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	Organic lignite additive for drilling fluids (industrial use only).

### Contents

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

Product identifier	Organic Lignite DYOL-H3
Synonyms	Amine-treated lignite
Recommended use	Oilfield chemicals
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

Address	Room 1504, Building A, Rising Times, Puyang City, Henan, China
Email	info@dongyuchemical.com
Website	https://www.dongyuchemical.com

## SECTION 2. Hazards identification

- Hazard overview: Dust may irritate eyes/skin/respiratory tract; ingestion of large amounts may cause mucosal damage/burning sensation. Chronic excessive exposure may cause dermatitis. Not classified as carcinogenic by major agencies. Fire/explosion: High dust concentrations may form explosive mixtures with air.

## SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Amine-treated lignite	—	≥90%	
Moisture	7732-18-5	≤10%	

## SECTION 4. First aid measures

- General: Carry this SDS when seeking medical treatment.  
 Inhalation: Move to fresh air; oxygen if breathing is difficult; seek medical care.  
 Ingestion: Drink 2–3 glasses of water immediately; seek medical attention if discomfort persists.  
 Skin: Wash thoroughly with soap and water; remove contaminated clothing; seek medical care if discomfort.  
 Eyes: Lift eyelids and rinse with plenty of water for 15 minutes; seek medical attention if not improved.

## SECTION 5. Firefighting measures

- Extinguishing media: Water, CO<sub>2</sub>, dry chemical, foam.  
 Firefighters: Wear SCBA and full protective clothing.  
 Unusual hazards: Dust explosion possible at high airborne levels; hazardous decomposition products include CO and NO<sub>x</sub>.

## SECTION 6. Accidental release measures

- Spill response: Stop leak; collect with shovel; place solid spill in compatible container for reuse/disposal.

## SECTION 7. Handling and storage

- Handling: Avoid skin/eye contact and inhalation/ingestion; do not allow contact with water or other liquids during storage.  
Storage: Keep container tightly closed in a dry, clean environment.

## SECTION 8. Exposure controls / personal protection

- Exposure limits: Other adopted limit 2 mg/m<sup>3</sup> for nuisance dust (per source). Provide local ventilation above this level.  
PPE: NIOSH-approved dust respirator; protective gloves for prolonged exposure; safety glasses; ensure eyewash/shower accessible.  
Hygiene: Wash work clothes separately daily; discard contaminated disposable clothing.

## SECTION 9. Physical and chemical properties

- Key properties summarized in the property table: black powder; density ~600/810 kg/m<sup>3</sup> (uncompressed/compressed); ≥95% pass 80 mesh; moisture ≤10%; dispersible in oil and insoluble in water; no strong odor.

Property	Value
Appearance	Black powder
Not determined	Not determined
Density (uncompressed / compressed)	≈600 kg/m <sup>3</sup> / ≈810 kg/m <sup>3</sup>
Fineness (80 mesh)	≥95%
Moisture	≤10%
Solubility	Dispersible/slightly coalescent in oil; insoluble in water
Odor	No special strong odor

## SECTION 10. Stability and reactivity

- Stability: Stable; hazardous polymerization will not occur.  
Incompatibilities/conditions to avoid: Not specified; avoid dust clouds and ignition sources.

## SECTION 11. Toxicological information

- Toxicology: No specific case data; primary effects are mechanical irritation and dermatitis with repeated excessive exposure.

## SECTION 12. Ecological information

- Ecological impact: Unknown in source MSDS; prevent uncontrolled release.

## SECTION 13. Disposal considerations

- Disposal: Landfill or incinerate in compliance with national/local regulations.

## SECTION 14. Transport information

- Transport information: No provisions for DOT/TDG/IMDG/ICAO/IATA; treat as not regulated.

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID (Road/Rail)	—	No provisions (not regulated)	—	—
TDG/IMDG/ICAO/IATA	—	No provisions (not regulated)	—	—

## SECTION 15. Regulatory information

- Regulatory: SARA 311/312—Acute Health Hazard; product ingredients listed on TSCA; other state rules: none per source.

## SECTION 16. Other information

- Other information: This SDS relates to the material as supplied; users must evaluate their specific uses and processes.

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.