



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

Room 1504, Building A, Rising Times

Puyang, Henan, China

Email: info@dongyuchemical.com • www.dongyuchemical.com

SAFETY DATA SHEET (SDS)

Organic Clay In Non-Aqueous Drilling Fluid DYGEL

SDS No.: ORGANIC CLAY DYGEL • Version: 2.9 • Revision date: 2025-10-11

GHS classification	Not classified as hazardous under GHS.
Primary hazards	Treat as combustible dust at high airborne concentrations; dust may cause mechanical irritation to eyes/skin/respiratory tract; slippery when wet.
Recommended PPE	Safety glasses/goggles; chemical-resistant gloves (nitrile); standard protective clothing; P2/P95 dust respirator if exposure exceeds OELs.
Shelf life	24 months in unopened original packaging at 5–35 °C; keep dry and away from sunlight.
Packaging	25 kg bags (typical). Store in a cool, dry, well-ventilated place away from strong oxidizers/acids.
Intended use	Organophilic bentonite additive for non-aqueous drilling fluids (industrial use only).

Contents

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

Product identifier	Organic Clay In Non-Aqueous Drilling Fluid DYGEL
Synonyms	Organophilic bentonite (alkyl quaternary ammonium treated)
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

- Classification: This product normally has no hazards per source MSDS. Potential effects: Skin—may be irritating; Eyes—may cause irritation; Ingestion—may irritate digestive tract. Precautions: Avoid generating dust clouds; provide local exhaust; ground/bond equipment to prevent static.

SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Alkyl Quaternary Ammonium Bentonite	68953-58-2	≥97%	
Quartz (Crystalline silica)	14808-60-7	≤3%	

SECTION 4. First aid measures

- General: When in doubt or symptoms persist, seek medical attention.
 Inhalation: Remove to fresh air; medical attention for breathing difficulty.
 Skin: Wash with soap and water; remove contaminated clothing.
 Eyes: Rinse cautiously with water for ≥15 minutes.
 Ingestion: If large amounts swallowed, rinse mouth and give water to drink; get medical advice.
 Most important symptoms: Product not classified as harmful; irritation possible.
 Special treatment: If skin irritation or rash occurs, seek medical advice/attention.

SECTION 5. Firefighting measures

- Extinguishing media: Water fog, foam, dry chemical, or CO₂.
 Fire/explosion: Treat as combustible organic dust at high concentrations; ensure grounding/bonding and explosion venting where appropriate.
 Firefighting: Wear self-contained breathing apparatus; cool containers with water spray.

SECTION 6. Accidental release measures

- Non-emergency personnel: Remove ignition sources; ventilate; avoid inhalation/skin/eye contact. Emergency responders: Wear dust respirator and chemical-resistant gloves/eye protection; NIOSH/MSHA-approved respirator if dust generated. Environmental precautions: Prevent large quantities from entering drains. Cleanup: Minimize dusting; sweep/shovel into suitable container for reuse or disposal; caution—slippery when wet.

SECTION 7. Handling and storage

- Handling: Provide exhaust ventilation where dust forms; do not eat/drink/smoke in work areas; wash hands after use; remove contaminated clothing before breaks. Storage: Keep container closed in a dry, cool place; avoid dust formation; keep away from strong oxidizers and strong acids.

SECTION 8. Exposure controls / personal protection

- Exposure limits: ACGIH-TLV 8- h TWA 10 mg/m³ (inhalable fraction); OSHA-PEL 8- h TWA Dusts 10 mg/m³. PPE: Eye—safety glasses/goggles; Hand—chemical-resistant gloves; Body—protective garments normally not required; Respiratory—air- purifying dust respirator if above OELs; Thermal—protect as needed.

SECTION 9. Physical and chemical properties

- Typical properties: powder, light cream, odorless; pH 4–7; relative density 1.65–1.75; water insoluble; non-explosive; non-oxidizing.

Property	Value
Appearance / Color / Odor	Powder; light cream; odorless
Not applicable (solid powder)	Not determined
pH	4–7
Relative density	1.65–1.75
Water solubility	Insoluble
Explosive properties	Non-explosive (dust may explode at high concentrations)
Oxidising properties	Not oxidizing

SECTION 10. Stability and reactivity

- Stable under normal storage and handling. Avoid incompatible materials. Incompatibilities: Strong oxidizing agents and strong acids. Decomposition products in fire: carbon monoxide, carbon dioxide, organic chlorides, ammonia.

SECTION 11. Toxicological information

- Acute toxicity: LD50 oral (rat) 20000 mg/kg bw; LC50 inhalation/LD50 dermal—data not available. Skin corrosion/irritation: Not classified. Eye damage/irritation: Not classified. Respiratory/skin sensitization, mutagenicity, carcinogenicity, reproductive toxicity, STOT- SE/RE: Not classified per source.

SECTION 12. Ecological information

- Aquatic toxicity: Crustacea 48 h LC50 > 30000 mg/L; Algae 72 h EC50 > 10000 mg/L. Persistence/degradability: Insignificant degradability. Bioaccumulation/mobility: Not available. PBT/vPvB: Not PBT/vPvB per source.

SECTION 13. Disposal considerations

- Container handling: Use approved waste collection promptly. Dispose/Recycle in accordance with regional, national and local laws.

SECTION 14. Transport information

- Transport: Not regulated as dangerous goods for ADR/RID, ADN, IMDG, or IATA. No marine pollutant; follow general precautions in Section 2.2.

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID / ADN / IMDG / IATA	—	Not regulated (Not dangerous goods)	—	See Section 2.2; avoid dust and static ignition sources.

SECTION 15. Regulatory information

- Regulatory information: Product does not belong to dangerous chemicals per source; comply with applicable occupational and environmental regulations.

SECTION 16. Other information

- Disclaimer: Information believed correct and to be used as a guide only; no warranty of merchantability or fitness; user must determine suitability for specific purposes.

Issue date: 2025-10-11 • Supersedes: N/A

Disclaimer: The information herein is believed to be accurate and is provided without warranty; users must determine suitability for their specific purposes.

Revision History

Version	Date	Change summary	Approved by
2.9	2025-10-11	Initial Organic Clay In Non-Aqueous Drilling Fluid release using master template	QA