



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

Modified Starch For Reservoir Application DYDF-L

SDS No.: DYDF-L • 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 chemical splash goggles; nitrile gloves; standard protective clothing; P2/P95 respirator if dust/mist 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); 500–1000 kg FIBC on request. Store in a cool, dry, well-ventilated place away from heat and incompatible materials.
Intended use	WBM additive (industrial use only).

Contents

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

Product identifier	Modified Starch For Reservoir Application DYDF-L
Synonyms	Modified starch (reservoir application)
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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SECTION 2. Hazards identification

- Classification: Not classified as hazardous under Regulation (EC) No 1272/2008. No signal word/pictograms required.
Other hazards: Combustible organic powder; fine distribution may present dust explosion hazard when whirled up; dust may cause mechanical irritation to eyes/skin/respiratory tract.

SECTION 3. Composition / information on ingredients

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Substance	CAS No.	Concentration	Notes
Starch	9005-84-9	>98%	

SECTION 4. First aid measures

- Inhalation: Move to fresh air.
Skin: Remove contaminated clothing; rinse skin with water or shower.
Eyes: Rinse with plenty of water; remove contact lenses if present.
Ingestion: Give water (two glasses max.); consult a doctor if unwell.
Most important symptoms: See Sections 2 and 11. Special treatment: No specific antidote.

SECTION 5. Firefighting measures

- Suitable media: Water, foam, CO₂, dry powder. Unsuitable: No limitations reported.
Specific hazards: Nature of decomposition products not fully known; development of hazardous combustion gases/vapors possible in fire; combustible organic material.
Advice for firefighters: Wear self-contained breathing apparatus. Prevent contaminated water from entering drains/groundwater.

SECTION 6. Accidental release measures

- Personal precautions: Avoid inhalation of dust; see Section 8 for PPE; evacuate area if needed.
Environmental precautions: Do not let product enter drains.
Methods: Cover drains; collect and take up dry; avoid generation of dusts; dispose according to Section 13.

SECTION 7. Handling and storage

- Handling: Avoid dust formation; ensure local exhaust where dust may form; keep away from ignition sources.
Storage: Store cool, dry, well-ventilated; maintain RH < 75%; keep containers sealed; segregate from flammables, oxidants, strong alkalis.
Transport/handling notes: Prevent leakage/collapse/fall/damage; protect from sun/rain/high temperatures.

SECTION 8. Exposure controls / personal protection

- Engineering controls: Provide exhaust ventilation or other controls to keep airborne concentrations below threshold values.
PPE: Fully protected chemical safety goggles; water-resistant or neoprene gloves; dust mask/respirator when dust may form.

SECTION 9. Physical and chemical properties

- Key properties: Off-white powder; slight odor; density 1.35; pH 8.5–10.0. Additional parameters not provided in source MSDS.

Property	Value
Appearance	Off-white powder
Not determined	Not determined
Odor	Slight odor
Density	1.35
pH (1% solution)	8.5–10.0

SECTION 10. Stability and reactivity

- Reactivity: As with many organic powders, fine dust may be explosible.
Stability: Chemically stable at ambient conditions.
Hazardous reactions: Exothermic reaction possible with strong oxidizing agents.
Conditions to avoid: Dust generation, ignition sources, and static discharge.
Incompatible materials: Strong oxidizers.
Decomposition: See Section 5.

SECTION 11. Toxicological information

- Acute toxicity: No data available. Primary effects expected to be mechanical irritation with high dust exposure.
Skin corrosion/irritation: Not expected, but prolonged contact may cause dryness/irritation.
Serious eye damage/irritation: Dust may cause transient irritation.

Respiratory sensitization/Skin sensitization/Mutagenicity/Carcinogenicity/Reprotoxicity: No data available; no components listed by major agencies.

SECTION 12. Ecological information

- Ecotoxicity/Persistence/Bioaccumulation/Mobility: No data available. Avoid uncontrolled releases to the environment.

SECTION 13. Disposal considerations

- Dispose of contents/container in accordance with local, state and federal regulations. Avoid discharge to sewers or natural waters.

SECTION 14. Transport information

- Transport classification: Not regulated as dangerous goods for ADR/RID (road/rail), IATA (air), or IMDG (sea). Ensure dry, sealed packaging; prevent dust release during handling.

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID (Road/Rail)	—	Non-Hazardous / Not regulated	—	Prevent dust release; keep dry; seal packaging.
IATA (Air)	—	Non-Hazardous / Not regulated	—	Protect from moisture; package to prevent dust.
IMDG (Sea)	—	Non-Hazardous / Not regulated	—	Not a marine pollutant as supplied.

SECTION 15. Regulatory information

- Regulatory note: According to Regulation (EC) No.1272/2008 and amendments: no classification required for this product.

SECTION 16. Other information

- Issue date: 2025-10-10 • Supersedes: —
Disclaimer: Information believed accurate but provided without warranty; user must determine suitability for specific applications.

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 Modified Starch For Reservoir Application DYDF-L release using master template	QA