



HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SAFETY DATA SHEET (SDS)

Sulfonated Lignite SMC

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

GHS classification	Not classified as hazardous under GHS.
Primary hazards	May form flammable dust/air mixture during handling; static discharge can ignite dust cloud; dust irritates eyes and 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	Sulfonated lignite fluid-loss/dispersant additive for drilling fluids (industrial use only).

Contents

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

Product identifier	Sulfonated Lignite SMC
Synonyms	Modified coal tar asphalt; sulfonated 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
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SECTION 2. Hazards identification

- Irritation: Dust can irritate eyes and upper respiratory tract. Slippery when wet. Fire & explosion: May form flammable dust/air mixture; static discharge during emptying could flash-fire.

SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Humic acid (dry basis)	—	≥45.0%	
Chromium (dry basis)	—	≥1.70%	
Moisture	—	≥15.0%	

SECTION 4. First aid measures

- Eyes: Flush with water for at least 15 minutes; seek medical advice if symptoms persist.
Skin: Wash with soap and water; discard or clean contaminated clothing and shoes.
Inhalation: Move to fresh air; oxygen if breathing is difficult; artificial respiration if not breathing; get medical attention if symptoms continue.
Ingestion: Rinse mouth and seek medical attention if severe symptoms occur.

SECTION 5. Firefighting measures

- Extinguishing media: Water spray, dry chemical, foam, CO₂. Not classified as flammable; fight surrounding fire.

SECTION 6. Accidental release measures

- Avoid dust clouds; sweep up to avoid dust generation; provide ventilation; place in container for proper disposal.

SECTION 7. Handling and storage

- Handling: Avoid dust; control static; prohibit smoking. Storage: Dry, cool, out of direct sun; keep sealed to maintain quality.

SECTION 8. Exposure controls / personal protection

- Controls: Provide ventilation to avoid worker hazard. PPE: Safety glasses/face shield; impervious gloves; suitable respirator when airborne particulates exceed limits.

SECTION 9. Physical and chemical properties

- Key properties per source: powder, black-brown, odorless; pH 6–9; relative density ~0.98 g/cm³; partly water-soluble; flash point not applicable; no oxidizing properties; auto-ignition not applicable.

Property	Value
Appearance / Physical state / Color / Odor	Powder; black-brown; none
Not determined	Not determined
pH	6–9
Relative density	0.98 g/cm ³
Water solubility	Partly soluble
Flash point	Not flammable
Auto-ignition temperature	Not applicable

SECTION 10. Stability and reactivity

- Stable under normal storage/handling. Incompatible with acids and strong oxidizers.

SECTION 11. Toxicological information

- Toxicology: Sodium sulfate oral LD50 (mouse) 5989 mg/kg cited in source; product described as non-toxic and non-polluting.

SECTION 12. Ecological information

- Described as non-toxic and environmentally friendly in the source.

SECTION 13. Disposal considerations

- Use approved waste collection and disposal promptly; comply with regional/national/local laws.

SECTION 14. Transport information

- Not hazardous per transport rules; do not ship with strong oxidizers.

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
General transport	—	Non-hazardous / Not regulated	—	Do not transport with strong oxidizers; keep containers closed.

SECTION 15. Regulatory information

- Follow applicable transport and pollution-prevention acts referenced in the source document.

SECTION 16. Other information

- Information believed accurate; no warranty expressed; user responsible for 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 Sulfonated Lignite SMC release using master template	QA