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SAFETY DATA SHEET (SDS)

Chrome Free Lignosulfonate DYJN-YG

SDS No.: DYJN-YG • 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	Chrome- free lignosulfonate thinner/filtration reducer for WBM (industrial use only).

Contents

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

Product identifier	Chrome Free Lignosulfonate DYJN-YG
Synonyms	Chrome-free lignosulfonate; DYJN- YG
Recommended use	Oilfield chemicals; WBM thinner/filtration reducer
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SECTION 2. Hazards identification

- Routes of exposure: Inhalation, ingestion, skin/eye contact.
Health hazards: Prolonged bare-skin exposure may cause allergic dermatitis; inhalation may irritate the respiratory tract. Environmental hazards: Random disposal can be harmful to the environment.
Fire & explosion: Non- flammable when exposed to open flames under normal conditions.
GHS classification/labeling: Not classified; no signal word/pictograms required. Precautionary advice: Avoid generating dust; use local exhaust; wear eye protection and gloves for prolonged handling.

SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Lignosulfonate	8061-52-7	70%	Primary active; chrome- free
Ferrous sulfate	7720-78-7	20%	Functional additive
Water	7732-18-5	10%	Process water

SECTION 4. First aid measures

- Skin contact: Rinse thoroughly with plenty of flowing water; remove contaminated clothing and launder before reuse.
Eye contact: Flush with water or saline for at least 15 minutes while holding eyelids apart; seek medical attention if irritation persists.
Inhalation: Move to fresh air; keep airways open; oxygen if breathing is difficult; artificial respiration if breathing stops; obtain medical attention.
Ingestion: Rinse mouth with small amount of water promptly; if large quantities are ingested, induce vomiting only if directed by medical personnel, and seek medical attention promptly.

SECTION 5. Firefighting measures

- Hazard characteristics: Can burn when exposed to open flames or prolonged high heat, releasing smoke of irritating odor.
Hazardous combustion products: Carbon monoxide, sulfur oxides, and black smoke of unknown composition.

Extinguishing media: Water mist, foam, dry powder, carbon dioxide, or sand.

Firefighting precautions: Firefighters should wear self-contained breathing apparatus and full protective clothing; fight fire from upwind.

SECTION 6. Accidental release measures

- Personal precautions: Avoid contact with eyes and skin; wear appropriate PPE.
Environmental precautions: Comply with spill reporting and waste regulations; prevent entry into sewers and waterways.
Cleanup methods: Contain spill with absorbent; sweep/vacuum to avoid dust; place in approved containers for disposal per Section 13.

SECTION 7. Handling and storage

- Handling: Provide good natural ventilation; operators should wear self-priming filter dust masks where dust may form; keep away from ignition and heat sources; avoid oxidants; handle with care to prevent package damage.
Storage: Store cool, dry, well-ventilated; RH < 75%; keep sealed to prevent moisture; segregate from flammables, oxidants, strong alkalis; no smoking. During transport, prevent leakage/collapse/fall/damage; keep out of sun/rain/high temperature.

SECTION 8. Exposure controls / personal protection

- Exposure controls: Use local exhaust ventilation to keep airborne dust below applicable values.
Personal protective equipment: Safety goggles; general protective clothing and safety shoes; gloves for prolonged contact; respiratory protection (mask) when long-term exposure or visible dust occurs.

SECTION 9. Physical and chemical properties

- Main ingredients: Compound. Appearance: Brown powder. pH (aqueous): 8–12. Bulk density: 1.05–1.15. Solubility: Soluble in water. Other parameters: data not available/not determined where listed in the property table.

Property	Value
Appearance	Brown powder
Not determined	Not determined
pH (aqueous solution)	8–12
Bulk density	1.05–1.15
Solubility	Soluble in water

Melting/Freezing point	N/A
Boiling point	N/A
Flash point	Data not available
Auto-ignition temperature	Data not available
Explosion limits (upper/lower)	Data not available / Data not available
Relative vapor density (air=1)	Data not available
Saturated vapor pressure	Data not available

SECTION 10. Stability and reactivity

- Stability: Stable under normal conditions. Polymerization hazard: None expected.
Incompatible materials: Flammable/combustible materials, strong alkalis, strong oxidizers.
Conditions to avoid: Excess heat; dust clouds in confined spaces; moisture uptake during storage.
Decomposition products: Carbon oxides and sulfur oxides; irritating fumes in poor combustion.

SECTION 11. Toxicological information

- Likely routes: Skin/eye contact and inhalation of dust; ingestion is not an intended route in industrial use.
Acute effects: Slight skin irritation possible on prolonged contact; eye contact may cause severe irritation to soft tissue.
Carcinogenicity: Not listed by major agencies. Sensitization/Mutagenicity/Reprotoxicity: No specific data available; no adverse effects expected under normal handling.

SECTION 12. Ecological information

- Ecotoxicity: No specific quantitative data available; avoid uncontrolled releases.
Persistence/degradability: No data; lignosulfonate component expected to be biodegradable to some extent.
Bioaccumulation: Low potential expected due to water solubility.
Mobility in soil: Likely mobile in aqueous phase; may be retained by soil organic matter.

SECTION 13. Disposal considerations

- Dispose of contents/container in accordance with local, state, and federal regulations; avoid discharge to sewers and natural waters. Consider material recovery where feasible.

SECTION 14. Transport information

- Transport classification: Non- hazardous / Not regulated for ADR/RID (road/rail), IMDG (sea), and IATA (air). Ensure packaging remains sealed and dry; 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.
IMDG (Sea)	—	Non-Hazardous / Not regulated	—	Not a marine pollutant as supplied.
IATA (Air)	—	Non-Hazardous / Not regulated	—	Prevent dust release; observe airline rules.

SECTION 15. Regulatory information

- Regulations: According to Regulation (EC) No. 1272/2008 and amendments, and applicable PRC regulations (Environmental Protection Law 2015; Law on Prevention and Control of Occupational Diseases 2011; GBZ 2- 2007).

SECTION 16. Other information

- Issue date: 2025-10-10 • Supersedes: —
Training advice: Train personnel on dust control, PPE, spill response, and safe handling.
Disclaimer: Information is believed accurate but provided without warranty; users must determine suitability for their purposes.

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 DYJN-YG release using master template	QA