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SAFETY DATA SHEET (SDS)

High Temperature High Density Emulsifier

SDS No.: DY-OBM-EMUL-HTHD • Version: 2.9 • Revision date: 2025-10-10

GHS classification	{{Not classified / Category}}
Primary hazards	Not classified as hazardous (mixture); may cause skin/eye irritation; harmful to aquatic life with long lasting effects.
Recommended PPE	Safety glasses with side-shields; chemical-resistant gloves (nitrile/neoprene); long sleeves; OV/P95 respirator if ventilation is inadequate.
Shelf life	12 months (sealed, dry, ambient).
Packaging	200 kg drums.
Intended use	Emulsifier for oil based drilling fluids (OBM/SBM).

Contents

Product identifier	High Temperature High Density Emulsifier (OBM emulsifier)
Synonyms	C14–C20 polyamide emulsifier blend
Recommended use	Emulsifier for oil-based drilling fluids (OBM/SBM)
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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SECTION 2. Hazards identification

- GHS classification: Not classified as hazardous; mixture may cause skin/eye irritation.
  Label elements: No signal word/pictogram required. Precautionary statements: Avoid prolonged or repeated contact; avoid release to the environment.
  Other hazards: Dark brown liquid; spill may cause surfaces to become slippery.

SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
C14–C20 polyamide emulsifier (mixture)	— (mixture)	≥ 90%	Industrial use; not classified

SECTION 4. First aid measures

- General: Show this SDS to the physician. Never give anything by mouth to an unconscious person.
  Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Seek medical attention if irritation persists.
  Skin contact: Wash with soap and water. Remove contaminated clothing and launder before reuse. Seek medical advice if irritation develops.
  Inhalation: Move to fresh air; if breathing is difficult, administer oxygen; seek medical attention.
  Ingestion: Rinse mouth. Do not induce vomiting; seek medical attention if unwell.

SECTION 5. Firefighting measures

- Extinguishing media: Dry chemical, CO_2, foam, water fog.
  Specific hazards: Combustion may produce carbon oxides and irritating fumes.
  Protective equipment: Self-contained breathing apparatus; cool containers with water spray.
  Flash point: >120 °C (typical).

SECTION 6. Accidental release measures

- Personal precautions: Wear appropriate PPE; eliminate ignition sources; avoid breathing mists.
  Environmental precautions: Prevent entry to sewers/waterways.

Methods for cleanup: Absorb with inert material; collect in suitable containers; wash area with detergent and water.

SECTION 7. Handling and storage

- Handling: Ensure good ventilation; avoid aerosol formation; do not eat, drink, or smoke when using.
  Storage: Store in a cool, dry, well-ventilated place away from heat and oxidizers; keep container tightly closed. Recommended storage temperature: 5–35 °C.

SECTION 8. Exposure controls / personal protection

- OEL: No specific occupational exposure limits for the mixture.
  Engineering controls: Provide local exhaust where mists may form; emergency eyewash/shower recommended.
  PPE: Safety glasses; nitrile/neoprene gloves; long sleeves; respirator (OV/P95) if ventilation is inadequate.
  Hygiene: Wash hands after handling; launder contaminated clothing before reuse.

SECTION 9. Physical and chemical properties

- See Property table above for typical values and qualitative descriptors relevant to safe handling and use.

Property	Value
Appearance	Dark brown or reddish-brown liquid; mild odor
Viscosity	Not determined

SECTION 10. Stability and reactivity

- Reactivity: Generally non-reactive under normal conditions.
  Chemical stability: Stable in closed containers at ambient temperature; field experience supports long-term stability in OBM systems.
  Hazardous reactions: No hazardous polymerization expected; avoid mixing with strong oxidizers that may initiate exothermic reactions.
  Conditions to avoid: Overheating, open flames, and static discharge during transfer; high-energy misting increases inhalation risk.
  Incompatible materials: Strong oxidizing agents (e.g., peroxides, nitric acid); concentrated acids/alkalis may degrade product.
  Decomposition products: Carbon oxides and traces of nitrogen oxides; incomplete combustion may generate irritating organic vapors.

SECTION 11. Toxicological information

- Exposure routes: Skin/eye contact; inhalation of mists; ingestion is not an intended route in industrial use.
  Acute effects: Low acute toxicity expected; may cause transient eye/skin irritation.
  Repeated exposure: Prolonged contact may defat/dry skin; repeated high mist exposure may irritate respiratory tract.
  Sensitization: Not expected; isolated allergic responses cannot be excluded.
  Mutagenicity/Carcinogenicity/Reprotoxicity: No components listed by IARC, NTP, or OSHA; no specific hazards expected based on mixture type.
  Aspiration hazard: Not classified; viscosity typically reduces aspiration risk.

SECTION 12. Ecological information

- Aquatic toxicity: Harmful to aquatic life with long-lasting effects (mixture judgement). Avoid uncontrolled releases.
  Degradability: Components expected to be partially biodegradable; rate depends on environmental conditions and formulation.
  Bioaccumulation: Hydrophobic constituents may bioaccumulate; monitor for chronic releases.
  Mobility: Low mobility in soil; floats on water; product may form surface films.
  Other effects: Not ozone-depleting; not expected to contribute directly to photochemical smog.

SECTION 13. Disposal considerations

- Waste treatment: Dispose via licensed contractor per local/regional regulations; energy recovery/incineration preferred.
  Waste codes: Assign according to use and contamination.
  Empty containers: May contain residues; keep closed; do not cut/weld; send to approved recycler/reconditioner.

SECTION 14. Transport information

- Not regulated as dangerous goods for road/rail, sea, or air transport under typical formulations. Ensure packaging is tight and leakage-free; prevent exposure to heat sources during transport. Verify final formulation status.

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID (Road/Rail)	—	Not regulated (non-dangerous goods)	—	Keep away from heat and ignition sources.

SECTION 15. Regulatory information

- Industrial use only. Ensure compliance with destination market requirements. Inventory status: Components typically listed or exempt on IECSC/TSCA/DSL; REACH registration may not be required under polymer exemption—verify case-by-case. SARA 311/312: Not expected to present

acute hazard categories under normal use; confirm for the specific formulation. Labeling: Prepared according to GHS/CLP principles where applicable.

SECTION 16. Other information

- Issue date: 2025-10-10 • Supersedes: —
  Training advice: Provide personnel with training on OBM chemical handling, spill response, and PPE selection. References: Internal test data; supplier literature for fatty polyamide emulsifiers; industry best practices.
  Disclaimer: Information is believed accurate but provided without warranty; user must determine suitability for specific applications.
  Revision History
  Version | Date | Change summary | Approved by
  2.9 | 2025-10-10 | Initial release using MASTER template | QA

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