



## HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD

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# SAFETY DATA SHEET (SDS)

## Nano-Emulsion Microsphere Plugging Agent DY-NMS

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

GHS classification	Not classified as hazardous under GHS.
Primary hazards	Nonflammable and nonexplosive under normal conditions; mists/vapors may irritate the respiratory tract; surfaces can be slippery when wet.
Recommended PPE	Chemical splash goggles; chemical-resistant gloves (e.g., nitrile); standard protective clothing; use P2/P95 respirator if aerosols/mists may form or ventilation is inadequate.
Shelf life	24 months in unopened original packaging at 5–35 °C; keep dry and away from sunlight.
Packaging	200 kg drums (typical). Store tightly closed in a cool, dry, well-ventilated place; keep away from heat/ignition and oxidizers.
Intended use	Nano polyester sealer for drilling fluids (industrial use only).

### Contents

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

Product identifier	Nano-Emulsion Microsphere Plugging Agent DY-NMS
Synonyms	Acrylic Acid–Acrylamide–AMPS Emulsion Polymer
Recommended use	Oilfield chemicals

Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD
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## SECTION 2. Hazards identification

- Hazard overview: May irritate the human body (eyes/skin/respiratory) if mishandled.
- GHS: Not classified; no signal word/pictograms required.
- Precautions: Avoid breathing vapors/aerosols;
- wear eye protection and gloves.

## SECTION 3. Composition / information on ingredients

Substance	CAS No.	Concentration	Notes
Acrylic acid / acrylamide / 2-acrylamido-2-methylpropanesulfonic acid copolymer (AA/AMPS)	40623-75-4	50%	
Emulsifier	--	10%	
White mineral oil	8042-47-5	20%	
Water	7732-18-5	20%	

## SECTION 4. First aid measures

- Inhalation: Remove to fresh air; medical attention if respiratory irritation develops or breathing becomes difficult.  
Ingestion: Rinse mouth; drink plenty of water; seek advice if large quantities were ingested.  
Eyes: Flush with water for at least 15 minutes; obtain medical attention if irritation persists.  
Skin: Wash with soap and water; remove contaminated clothing and launder before reuse.

## SECTION 5. Firefighting measures

- Extinguishing media: Water fog, CO<sub>2</sub>, sand, dry chemical.  
 Firefighting: Firefighters should wear SCBA and full protective clothing; evacuate area, fight from a safe distance.  
 Combustion products: Oxides of carbon.

## SECTION 6. Accidental release measures

- Personal precautions: Wear specified PPE.  
 Spill response: Contain and collect with inert absorbent; avoid sources of ignition; dispose per Section 13.

## SECTION 7. Handling and storage

- Handling: Use spark-proof/explosion-proof tools and equipment; avoid aerosol generation; no smoking.  
 Storage: Keep in a well-ventilated area away from incompatible materials and ignition sources.

## SECTION 8. Exposure controls / personal protection

- Engineering controls: Use in well-ventilated areas; provide local exhaust if necessary.  
 PPE: Dust mask (as needed), safety glasses, rubber gloves, coveralls.

## SECTION 9. Physical and chemical properties

- Appearance: Milky white liquid, odorless. Other physical parameters were not determined in the source MSDS.

Property	Value
Physical state / Color / Odor	Liquid; Milky white or slightly yellow emulsion; odorless
Density	1.1–1.2
pH	7.0-9.0
Boiling point°C	106.0
Lower/Upper explosion limits	Not determined / Not determined
Auto-ignition temperature	Not determined
Solubility	Soluble in water, ethanol, and glycerol
Lower/Upper explosion limits	Not determined / Not determined

## SECTION 10. Stability and reactivity

- Stability: Stable under normal conditions. Incompatibilities: Unknown; general caution with strong oxidizers/acids.  
Hazardous reactions: Will not occur under recommended conditions.

## SECTION 11. Toxicological information

- Primary route: Skin contact. Acute effects: Respiratory irritation possible; ingestion may cause discomfort; eyes—irritation/inflammation; skin—prolonged contact may cause mild irritation. Chronic effects: Not determined.

## SECTION 12. Ecological information

- Ecotoxicity and other environmental data: No data reported in source MSDS.

## SECTION 13. Disposal considerations

- Waste disposal: Dispose in accordance with EC, national, and local regulations.

## SECTION 14. Transport information

- Transport: Shipping name—Not Restricted; UN number—NA; ICAO/IATA—NA.

Mode	UN/ID	Proper shipping name	Class/P.G.	Comments
ADR/RID (Road/Rail)	—	Not Restricted (Not regulated)	—	—
IMDG (Sea)	—	Not Restricted (Not regulated)	—	—
IATA (Air)	—	Not Restricted (Not regulated)	—	—

## SECTION 15. Regulatory information

- Regulatory information: Not Restricted; classification/symbol NA; risk/safety phrases NA.

## SECTION 16. Other information

- Disclaimer: Information relates to the specific material as supplied; users must assess suitability for their processes.

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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.