



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
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## Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Dimethyl Sulfoxide (DMSO)
- Product Number:DMSO-20260324
- Brand:TECHPURE
- CAS-No.:67-68-5
- Synonyms: Methyl Sulfoxide; DMSO

#### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

#### 1.4 Uses & Restrictions

- Identified Uses: Pharmaceutical solvent, chemical synthesis solvent, laboratory reagent.
- Uses Advised Against: No major restrictions; avoid excessive ingestion.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Aquatic toxicity (Category 3)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Irritant; Environment
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation); H319 (Causes serious eye irritation); H402 (Harmful to aquatic life)
- Precautionary Statements: P260 (Do not breathe vapor); P280 (Wear protective gloves/eye protection); P304+P340 (If inhaled: Remove to fresh air); P391 (Collect spillage)

2.3 Physical & Chemical Hazards: No physical/chemical hazards under normal use.

2.4 Health Hazards: Mild skin/eye irritation; prolonged skin contact may cause dryness.

2.5 Environmental Hazards: Harmful to aquatic life; fully biodegradable.

2.6 Other Hazards: None.

## SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance
- Active Component: Dimethyl Sulfoxide (CAS 67-68-5)
- Concentration:  $\geq 99.5\%$
- Impurities:  $\leq 0.5\%$  (Water, dimethyl sulfone)

## SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; seek medical attention if discomfort persists.
- Skin Contact: Rinse with running water for 10 minutes; remove contaminated clothing.
- Eye Contact: Rinse with plenty of water for 15 minutes; consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water; seek medical attention if large amounts are ingested.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO<sub>2</sub>, foam, water spray.
- Unsuitable Extinguishing Media: None.
- Special Hazards: Non-flammable; no hazardous combustion gases.
- Advice for Firefighters: Wear standard fire-fighting gear.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves for direct contact; evacuate non-essential personnel for large spills.
- Environmental Precautions: Prevent entry into watercourses.
- Clean-Up Methods: Small spills: Absorb with inert materials; large spills: Contain and transfer to sealed containers.

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas; wash hands after handling.
- Storage: Cool, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed, away from heat/oxidizers.
- Incompatibilities: Strong oxidizers, acids, halogens.

## SECTION 8: Exposure Controls/Personal Protection

- Engineering Controls: Basic ventilation sufficient.
- PPE: Safety glasses (large-scale handling); nitrile rubber gloves (prolonged contact); respiratory protection not required.
- Exposure Limits: TWA (8h): 100 ppm (proposed).

## SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless; Odor: Odorless
- Melting Point:  $18.4^{\circ}\text{C}$ ; Boiling Point:  $190^{\circ}\text{C}$ ; Flash Point:  $95^{\circ}\text{C}$
- Density ( $20^{\circ}\text{C}$ ):  $1.096\text{ g/cm}^3$ ; Viscosity ( $20^{\circ}\text{C}$ ):  $1.99\text{ mPa}\cdot\text{s}$
- Water Solubility: Fully miscible; Vapor Pressure ( $25^{\circ}\text{C}$ ):  $0.04\text{ kPa}$
- Autoignition Temperature:  $300^{\circ}\text{C}$

## SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions.
- Hazardous Reactions: Reacts violently with strong oxidizers/acids.
- Conditions to Avoid: Heat, strong oxidizers, acids.

## SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 14500 mg/kg; Inhalation (Rat, LC<sub>50</sub>): > 5000 mg/m<sup>3</sup> (4h)
- Skin/Eye Irritation: Mild skin irritation; reversible eye irritation.
- Chronic Toxicity: No known chronic effects.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Zebrafish, LC<sub>50</sub>): > 3000 mg/L (96h); Daphnia (EC<sub>50</sub>): > 2000 mg/L (48h)
- Biodegradability: Fully biodegradable (BOD<sub>5</sub> /COD = 0.6-0.7)

## SECTION 13: Disposal Considerations

- Product Waste: Dispose as non-hazardous waste; dilute with water for biological treatment.
- Packaging Waste: Rinse with water; dispose as non-hazardous waste or recycle.

## SECTION 14: Transport Information

- UN Number: None (Non-hazardous)
- UN Proper Shipping Name: Not dangerous goods
- Transport Hazard Class: None; Packaging Group: None
- Transport Precautions: Avoid collision, direct sunlight, and high temperature.

## SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation (Non-hazardous); Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed).

## SECTION 16: Other Information

- Revision Date: 24 MAR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.