

Chemical Safety Technical Data Sheet

Product Name:Dimethyl sulfoxide

Developed in accordance with GB/T 16483 and GB/T 17519

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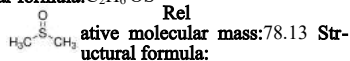
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Part 1: Identification of Chemicals and Enterprises

Chinese name of the chemical:Dimethyl sulfoxide; DMSO

Chemical name in English:dimethyl sulfoxide

Molecular formula:C₂H₆ OS



Recommended and restricted uses of the chemical:Widely used as a solvent and reaction reagent; not to be used as a drug, food, or for household or other purposes.

Part II Overview of Hazards

Summary of emergency:A flammable liquid.

GHS Hazard Category:

Flammable liquids:Category 4

Tag Elements:

Pictogram:None

Warning phrase:Warning

Risk statement:a flammable liquid.

Protection Explanation:

【 preventive measure 】 :

- Keep away from heat sources, hot surfaces, sparks, open flames, and other ignition sources. Smoking is prohibited.
- Wear protective gloves, protective goggles, and a protective face shield.
- Avoid contact with eyes and skin; thoroughly rinse after use.

[Accident Response]:

- During a fire, use foam, carbon dioxide, dry powder, or sand for extinguishing the flames.
- In case of skin (or hair) contact: Immediately remove all contaminated clothing, rinse the skin with water, and take a shower.
- In case of eye contact: Rinse carefully with water for several minutes. If wearing contact lenses that can be easily removed, remove them and continue rinsing. If eye irritation persists: Seek medical attention.

【 safe storage 】 :

- Store in a well-ventilated area.

[Disposal of Waste]:

- This product, its contents, and the container shall be disposed of in accordance with national and local regulations.

Physical and chemical hazards:Flammable liquid.

Health hazards:Causes eye irritation.

Environmental hazards:No data available.

Part III: Composition/Composition Information

√matter

mixture

Boiling point (°C): 188–190	Relative density (water = 1): ρ (20) = 1.095–1.105 mL
Relative vapor density (air = 1): No data	Saturation vapor pressure (kPa): No data
Combustion heat (kJ/mol): No data	Critical temperature (°C): No data
Critical pressure (MPa): No data	Octanol/water partition coefficient: No data
Flash point (°C): No data available	Self-ignition temperature (°C): No data
Lower explosive limit (%): No data	Explosion Limit (%): No data
Decomposition temperature (°C): No data	Viscosity (mPa·s): No data
Dissolution: Completely miscible with water, ethanol, and ether.	

Part 10 Stability and Reactiv-

ity Stability:Stable.

Adverse reactions:No data available.

Conditions for avoiding contact:No information available.

Contraindications:No information available.

Hazardous decomposition products:No data available.

Part XI Toxicological Inf-

ormation Acute toxicity:No data available.

Skin irritation or corrosion: non-avaible 。

Eye irritation or corrosion: non-avaible 。

Respiratory or skin allergy: non-avaible 。

Mutability of germ cells: non-avaible 。

Carcinogenicity:No data available.

Reproductive toxicity:No data available.

Specific target organ system toxicity – single exposure:No data available.

Specific target organ system toxicity – repeated exposure:No data available.

Inhalation hazards:No data available.

Part XII Ecological Info-

rmation Ecotoxicity:No Data Available.

Durability and Degradability:

 Biodegradability: No data available.

 Non-biodegradability: No data available.

Potential bioaccumulation:No data available.

Mobility in soil:No data available.

Part XIII Disposal of

waste chemicals:Remaining and non-recyclable products shall be disposed of by licensed companies.

Contaminated packaging:Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

Disposal precautions:Refer to relevant national and local regulations before disposal.

Part XIV Transport Inf-

ormation United Nations Dangerous Goods Number (UN Number):No information available

Name of Transport by the United Nations:Non-hazardous goods

UN hazard class:No information

Packaging Category:No information

Packaging Logo:No information

Marine pollutants:No