

LIAONING DMSO CHEMICALS CO., LTD.



ROOM 11-13, 16TH FLOOR, BLOCK A, FINANCIAL SQUARE, XINGLONGTAI DISTRICT, PANJIN CITY, LIAONING P.R. CHINA

HT TP://WWW.DMSO.NET.CN EMAIL: DMSO@CHINADMSO.COM TEL: +86-427-6503033 FAX:+86-427-2871717

DMS (DIMETHYL SULFIDE)

Material Safety Data Sheet

1. PRODUCT AND MANUFACTURER

Molecular Formula: C₂H₆S

Molecular Weight: 62.13

Manufacturer/Supplier:

LIAONING DMSO CHEMICALS CO., LTD.

ADD: Room 11-13, 16th floor, Block A, Financial Square, Panjin Wealth Building, No. 107 Shiyou Road, Xinglongtai District, Panjin city, Liaoning P.R. China

POST CODE: 124000

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2. Composition/Data on components:

Components: purity

Harmful components: Dimethyl Sulfide

CAS NO.: 75-18-3

3. Hazards identification

Hazard grade: Low burning point liquid of grade3.1

Invasion pathways: Inhalation, ingestion ,and percutaneous absorption

Health hazards: The steam has irritation to nose and throat , can cause coughing and discomforting of chest. Persistent or high concentrations of inhalation can cause headache, nausea, and vomiting. Liquid or mist has irritation to eyes, and can cause dermatitis.

Environment hazards: Harmful to environment.

Explosion danger: Extremely flammable and when mixed with air can form explosive mixtures.

4. First aid measures

After skin contact: Remove contaminated clothing, Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact: Rinse opened eye for several minutes under running water or with normal saline. Then consult a doctor.

After inhalation: Supply fresh air and keep the airway open. If required, provide artificial respiration. Keep patient warm.

Breathing or cardiac arrest , immediate take and Seek immediate medical advice.

After swallowing: Drink water, induce vomiting is prohibited. Any discomfort, seek medical attention.

5. Fire fighting measures

Hazardous characteristics: When the vapor is mixed with air, it's mixture can form explosive mixtures, and while contact with fire or heat it will burn or explore immediately. The decomposition by heat can generate toxic sulfide gas. Have a strong reaction with oxidant. The steam is heavier than air and spread along the ground and can easily store in the low-lying place, the event will fire back to the burning fire.

Hazardous combustion products: Carbon monoxide, sulfur dioxide

Fire fighting methods: With foam, carbon dioxide, dry powder, sand to fight with fire.

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Fire precautions and measures: Firemen have to wear gas masks, wearing a safety and fire services, fire in the wind. Containers should be taken away from fire scene as far as possible. Keep Watering to cool the fire scene until the fire end. If the color of any container in the scene changes or voice spreads from safety relief devices, must evacuate immediately. Water fire is invalid.

6. Accidental release measures

Emergency Action: Eliminate all ignition sources, according to the affected zone of liquid flow and vapor diffusion to zone warning zone and unrelated persons should evacuate from the side of the wind, the wind direction to safety zone.

Recommended the emergency personnel to wear positive pressure self-contained breathing apparatus, and wear anti-static clothing. All operating equipment used should be grounded. Prohibit access to or across the leakage. Cut off the source of leakage as possible. Prevent leakage going into the water, sewers, basements or confined spaces. A small leak: Use sand or other non-combustible materials. Use clean non-sparking tools to collect absorbed material. Large leak: to build a causeway or trenching asylum. Cover with foam to reduce the evaporation. Water fog can reduce evaporation, but can not reduce the flammability of leakage in the restricted space. Use ex pump to transfer to tankers or exclusive collector.

7. Handling and storage

Handling Precautions: Closed operation, full ventilation. Trained operator must strictly abide by the rules. Easy operators should wear self-absorption filter respirators (half-mask), and wear protective chemical safety glasses, wear anti-static overalls, wearing rubber oil resistant gloves. Keep away from fire, heat, and workplace. No smoking is allowed. Use explosion proof ventilation systems and equipment. Prevent steam leakage invading into the workplace air; avoid mixing with oxidants, alkali, and ammonia exposure, with particular attention to avoid contact with water. Control the flow rate while filling, and a grounding device is needed to prevent accumulation of static electricity. Loading and unloading lightly, to prevent damage of packaging and containers. Equip with the appropriate variety and quantity of fire equipments and emergency equipments. Empty containers may remain hazardous materials.

Storage: Store in a cool, ventilated warehouse. Keep away from fire and heat. Stock temperature can not exceed 29 °C, packaging must be sealed, and can not contact with air. Store away from oxidants, alkali, ammonia stored and avoid mixing reservoir. Use explosion-proof lighting; prohibit using the mechanical equipment and tools of easy to produce sparks. Storage areas should be equipped with emergency spill handling equipment and suitable host material.

8. Exposure controls and personal protection

mAC (mg/m³): no standard

PC - TWA (mg/m³): no standard

PC - TEL (mg/m³): no standard

TLV - C (mg/m³): no standard

TLV - TWA (mg/m³):

TLV - STEL (mg/m³):

Monitoring method: no standard

Engineering Control: Production closed, full ventilation. Provide safety shower and eyewash equipment.

Respiratory protection: With higher concentration in the air, it is recommended to wear filter respirators (half - mask). When need emergency rescue or evacuation, breathing apparatus must be wear.

Eye protection: Wear protective chemical safety glasses.

Body protective: Wear electrostatic discharge uniforms.

Hand protective: Wear rubber gloves.

Additional information: No smoking is allowed in the work scene. After work, take a shower. Pay attention to personal hygiene.

9. Physical and chemical properties:

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Appearance: Colorless liquid with unpleasant odor

Melting point: -83.2°C

Boiling point: 38°C

Density: Relative density (water = 1) 0.85; the relative density (Air = 1) 2.14

Steam pressure: 64.64kPa/25°C

Flash point: -36°C

UN No.: 1164 (IMDG No.: 31033)

Risk mark: 7(Low flash point flammable liquid)

Solubility: Insoluble in water, soluble in alcohol, ether, and many organic solvents

Application: solvents, catalysts for inorganic

10. Stability and reactivity

Stability: stable

Hazardous Polymerization: Not aggregate

Decomposition products: sulfide

11. Toxicological information

Acute toxicity: Acute poisoning can cause irritation, motor ataxia, side down, anesthesia and respiratory disorders. Stimulate to the skin.

LD50: Rat oral LD50 (mg / kg): 3300

The oral LD50 (mg / kg): 3700

Rabbit skin: (mg / kg): 5000

LC50: Rat inhalation LC50 (mg/m³): 102235 mg/m³

12. Ecological information:

No data

13. Disposal considerations

Waste characteristics: hazardous waste Abandoned

Disposal: Proposed disposal by incineration. Incinerator emission of sulfur oxides should be removed by detergent.

Recommendation: Consult state, local or national regulations for proper disposal.

14. Transport information

IMDG No.: 31033

UN No.: 1164

Packaging category: I

Packaging methods: Ordinary wooden box outside ampoules: screw mouth bottle, Lid pressure bottles, plastic or metal drums (can) ordinary wooden box.

Transportation: transportation vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment for leakage. Transport in the morning or in the evening for the best. During transportation, slots (tank) cars should have grounded chain, tank hole partition can be set to reduce static electricity shock. Strictly prohibit mixing with oxidants, bases, ammonia, and food chemicals. During transportation, take action for Anti-transit exposure, rain, anti-high temperature, away from fire when stopovers, heat, high temperature zone. Shipment of the goods vehicle exhausts control devices must be equipped with fire retardant, prohibit using mechanical handling equipment and tools which are easy to produce sparks. Highway transportation must be under the ruled routes, no stopping or staying in the densely populated areas. Prohibit slide release during railway transportation. Using wooden, cement and bulk transport is strictly prohibited.

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15. Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.