



Emmessar Technologies Limited

Regd. Office: No. 5-C, Sett Minar, Peddar Road, Mumbai – 400 026.
Corp Office: 29, Kamer Bldg, 4th floor, 38, Cawasji Patel Street, Fort, Mumbai – 400001.
Tel: 66356209/10/11 Fax: 66370190; Email: enquiries@ebnl.org; etl@ebnl.org

MATERIAL SAFETY DATA SHEET - MSDS

DIMETHYL SULFONE (DMSO₂) April 28, 2015

1. Chemical Product & Company Identification

PRODUCT NAME : Dimethyl Sulfone (DMSO₂) CHEMICAL NAME: Dimethyl Sulfone
SYNONYMS/TRADE NAMES : Methyl Sulfone, Methanol Sulfonylibis, MSM, **MethylSulfonylMethane**
MOLECULAR FORMULA : (CH₃)₂SO₂ MOLECULAR WEIGHT: 94.13

MANUFACTURER/SUPPLIER:
Emmessar Biotech & Nutrition Ltd.,
29, Kamer Building, 4th floor, 38, Cawasji Patel Street, Fort,
Mumbai – 400001, India.

EMERGENCY HEALTH, SAFETY & ENVIRONMENTAL INFORMATION, CALL:
Emmessar Biotech & Nutrition Ltd., 00-91-22-66356209 (10:00 am - 6:00 pm IST)
(009122) 9223204064 (Nights and Weekends)
EMERGENCY TRANSPORTATION INFORMATION, CALL: 9223204064

OTHER INFORMATION, CALL: **Emmessar Biotech & Nutrition Ltd., 00912266356211**

2. Composition / Information on Ingredients

Ingredients	CAS No	Weight %	OSHA PEL	ACGIH TLV®
Dimethyl Sulfone	67-71-0	≥99%	Not established	Not established
NTP/IARC/OSHA CARCINOGEN :		No		
EC Classifications :		None Required		



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3. Hazard Identification

PHYSICAL APPEARANCE : White crystalline flakes or powder
ODOR : Essentially odorless
EFFECTS OF OVEREXPOSURE :
Inhalation : A nuisance dust that may cause respiratory irritation due to its physical form.
Eyes : The physical form of the chemical could be mechanically irritating to the eye.
Skin : Non-irritating.
Ingestion : Undetermined in humans but generally considered to be of low toxicity (oral rat LD50: 17,000mg/kg).

HMIS AND NFPA HAZARD RATINGS: Health - 1, Flammability - 1, Chemical Reactivity - 0
Note: HMIS and NFPA ratings involve data and interpretations that may vary from company to company. In both cases the lower the number, the less the hazard. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST AID MEASURES

Eye Contact:

Flush thoroughly with running water (including under eyelids) for at least 15 minutes. If irritation persists after flushing, seek medical attention.

Skin Contact:

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Wash skin if irritation occurs.

Ingestion:

Do not induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water. If significant amounts of the product have been ingested, consult a physician.

Note to Physicians: Treat symptomatically and supportively.

Inhalation:

Remove to fresh air. If breathing has stopped, provide artificial respiration and seek medical attention



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5. Fire fighting measures

Flashpoint and method:

143°C (290°F) closed cup

Flammable Limits (% in air):

LEL: Undetermined

UEL: Undetermined

Autoignition Temperature:

Undetermined

Extinguishing Media:

Foam, carbon dioxide, dry powder, and water spray.

Special protective equipment for fire-fighters:

Wear a Self-Contained Breathing Apparatus (SCBA).

Special Exposure Hazards:

Burning dimethyl sulfone produces poisonous gases (sulfur oxides).

6. Accidental Release measures

Spill, Leak, or Release:

Note: Review sections 3, 4, 5 and 8 of this MSDS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Initial Containment: If a spill occurs, immediately consult your environmental supervisor.

Spill Clean-up Methods:

Spills may be swept up and incinerated or diluted and flushed to wastewater treatment. Do not allow the material to enter streams or waterways.

7. Handling / Storage

Usage/Handling Precautions:

Avoid contact with eyes or skin. Do not smoke in areas of storage or use.

Skin or clothing that becomes contaminated should be immediately washed or showered.

Storage Precautions:

Store away from strong oxidizing agents in a well ventilated cool and dry location.

Protect containers from physical damage.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH Threshold Limit Value (TLV): not established

OSHA (USA) Permissible Exposure Limit (PEL, 1989 Table Z-1-A values or section-specific standards): not established

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentration low.

Respiratory Protection: Any particulate respirator in dusty atmospheres.

Eye Protection: Safety glasses/ chemical goggles. Eye wash stations are desirable near use areas.

Skin Protection: Any rubber or vinyl gloves.

General: Other protective equipment such as face shields, aprons, rubber boots or rubber suits may be needed in some situations.

Recommended Decontamination Facilities: Water washing facilities

9. Physical and Chemical Properties

Physical Form	: White crystalline powder or flakes
Odor	: Essentially odorless
Specific Gravity	: 1.450-1.455 (260C)
Vapor Pressure	: Not applicable
Vapor Density (Air = 1)	: Not applicable
Evaporation rate	: Not applicable
% Volatiles	: 0
Boiling Point	: 248°C (478°F)
Freezing Point	: 108-110°C (225-230°F)
Viscosity	: Not applicable
Solubility in water	: 33.9% w/w at 79°F
Flammability properties:	See section 5

10. Stability and Reactivity

Stability: Stable under normal temperature and storage conditions.

Materials to avoid: Strong oxidizing agents, perchloric acid and perchlorates.

Hazardous decomposition products: Sulfur dioxide and carbon monoxide fumes can be evolved.

Hazardous polymerization: Will not occur



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11. Toxicological Information

Data for Dimethyl Sulfone:

Acute Toxicity Data:

Oral LD-50 (male rat)	: 17,000 mg/kg
Inhalation	: Not available
Skin	: Not available
Eye	: Not available
Chronic/Subchronic Toxicity Data:	Not available
Mutagenicity	: Not available
Reproduction	: Not available
Teratology	: Not available

Carcinogenicity: None of the components present in this material at concentrations equal or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Aquatic Toxicity : Not available

12. ECOLOGICAL INFORMATION

Chemical Fate Information : Not available

13. Disposal Considerations

Disposal Methods

See section 6. Consult state or local authorities for proper disposal procedures.

14. Transport Information

DOT (USA) Status:

Proper shipping name	:	Chemical, NOS (Methyl Sulfone)
Hazard Class	:	Not hazardous by DOT Regulations in 49CFR
UN/NA Number	:	Not available
Reportable Quantity	:	N/A
DOT Placards	:	None
DOT Labels	:	None
Quantity limitations	:	None



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15. Regulatory information.

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Occupational Safety and Health Administration “OSHA” hazardous chemical(s): Dimethyl Sulfone
IARC - International Agency for Research on Cancer Carcinogenicity Classification

(components present at 0.1% or more): **Not Listed**

ACGIH - American Conference of Governmental Industrial Hygienists: **Not Listed**

NTP - National Toxicology Program: **Not Listed**

Reporting requirements of Section 313 or Title III of the superfund Amendments and
Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: **None**

TSCA - US Toxic Substances Control Act: This product is listed on the TSCA inventory.

EC Classification and User Label Information (Council Directive 67/548/EEC): Hazard Symbols and Risk
Phrases: **None**

16. OTHER INFORMATION

Caution

FOR MANUFACTURING, PROCESSING OR REPACKAGING BY TRAINED PERSONNEL

MSDS Issue Date: April 28, 2015 Compiled by: Jeyavel Nadar

Supersedes MSDS Dated: August 20, 2013

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers and the protection of the environment. To the best of our knowledge the facts given are correct.

However the information is given without warranty as to its accuracy. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.