

Material Safety Data Sheet Methylsulfonylmethane

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Methylsulfonylmethane.
Synonyms: Methyl Sulfonyl Methane; MSM.
Family: Not applicable.
Application: Laboratory and Research.
Chemical Formula: C₂H₆O₂S

Distributed By:
Ingredient Depot

Prepared By: Ingredient Depot Compliance & Regulatory Affairs Dept.
Preparation date of MSDS: 10 May 2013
Telephone number of preparer: 1-800-463-0665

24-Hour Emergency Telephone Number: 1-800-463-0665

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	Percentage by Weight
Methylsulfonylmethane	67-71-0	100

Notes: No additional remark.

3. HAZARDS IDENTIFICATION

Route of Entry: Eye contact. Skin contact. Inhalation. Ingestion.

Eye Contact: Dust may cause irritation to eyes. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin Contact: May cause skin irritation. Symptoms may include redness, burning, and swelling of skin.

Ingestion: Ingestion of large amounts may be harmful.

Inhalation: Dust may irritate the respiratory tract. Avoid inhalation.

Medical Conditions Affected by: No additional remark.

Exposure:

Signs of Over Exposure: No additional remark.

4. FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash affected area immediately with large amounts of soap and water. If irritation develops or persists, seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Notes to Physician: No additional remark.

5. FIRE FIGHTING MEASURES

Flammability of the Product: Not available.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Explosion Hazards: Not available.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Thoroughly sweep area of spill to clean up any residual material.

7. HANDLING AND STORAGE

Handling Procedures: Containers of this material may be hazardous when emptied. Promptly remove soiled clothing and wash before reuse.

Storage Needs: Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: White Crystalline Powder.
Odour: Not applicable.
Taste: Not applicable.
Vapor Density (Air=1): Not applicable.
Vapor Pressure (mm Hg): 0.030 mmHg / 25°C.
Evaporation Rate: Not applicable.
Boiling Point (°C): 460°F, 238°C.
Melting Point (°C): Not applicable
Specific Gravity: 1.45 (Water = 1)
pH: Not available.
Solubility in Water (% W/W): 30% / 25°C.
Distribution Freezing Point (°C): Not applicable.

10. STABILITY AND REACTIVITY

Stability: Excellent thermal and chemical stability characteristics.
Flash Point: 290°F.
Incompatibility: Perchloric acid, perchlorates.
Hazardous Decomposition or Byproducts: Sulfur oxides, eg. SO₂.
Corrosivity: Non-corrosive in presence of glass.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxic Effects on Animals: The oral LD₅₀ for rats is 17,000 mg/kg. LC₅₀: Not available.
Toxic Effects on Humans: No adverse health effects identified.
Products of Biodegradation: Not available.
Special Remarks on the Products of Biodegradation: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data.
BOD₅ and COD: Not available.
Products of Degradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Biodegradability: Our database contains no additional remark on the biodegradation of this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in a suitable waste treatment facility in compliance with all federal, provincial and local regulations.

14. TRANSPORT INFORMATION

TDG (Canada): Not Regulated.
DOT (U.S.): Not Regulated.
IMDG: Not Regulated.
ICAO/IATA: Not Regulated.

15. REGULATORY INFORMATION

WHMIS (Canada): Not controlled under WHMIS (Canada).

Other Regulations: Not available.

Other Classifications:

DSCL (EEC):

This product is not classified according to the EU regulations.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: A

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

16. OTHER INFORMATION

Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Disclaimer:

NOTICE TO READER:

Ingredient Depot, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Ingredient Depot Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Ingredient Depot makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Ingredient Depot's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

*****END OF MSDS*****