



MEDICAL ISOTOPES, Inc.

100 Bridge Street, Pelham, NH 03076, USA
Tel: (603) 635-2255 Toll Free: (800) 374-9513 Fax: (603) 635-2448
E-mail: info@medicalisotopes.com Internet: www.medicalisotopes.com

MATERIAL SAFETY DATA SHEET

Medical Isotopes, Inc.
Company Code: L074
Sheet No. D2399
Revision Date: 10/8/14

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: Dimethyl-d₆ Sulfoxide
CATALOG NUMBER: D2399
CAS No: 2206-27-1
Emergency Contact Information:
Call Chemtrec 24/7
DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2. CHEMICAL INFORMATION (UNLABELED)

CHEMICAL NAME: Dimethyl Sulfoxide-d₆
Synonyms: Hexadeuterodimethyl sulfoxide
Formula: C₂D₆OS

SECTION 3. HAZARDS IDENTIFICATION

Known Hazards: May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed. Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.

SECTION 4. FIRST AID MEASURES

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Skin Contact: Wash off with soap and plenty of water. Consult a physician.
Eye Contact: Flush eyes with water as a precaution.
Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Equipment: Wear self contained breathing apparatus for fire fighting if necessary.
Unusual Fire and Explosion Hazards: None

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Spill Clean-up Methods: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.



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SECTION 7. HANDLING & STORAGE

Usage/Handling Precautions: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls:

Personal Protective Equipment:

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless Liquid **Density:** 1.19 g/mL
Odor: N/A
Melting Point (°C): 18.4 C
Volatiles (%): N/A **Water Solubility (%):** Miscible
Flash Point (°C): -19 C
Autoignition Temperature (°C): N/A
pH: N/A
Flammability Limits in Air (% by Vol.) : N/A

SECTION 10. STABILITY & REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatibility (Materials/Conditions to Avoid): Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents, heat, flames, sparks

Hazardous Decomposition Products: Carbon oxides, sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute and Chronic Health Hazards: N/A

Oral LD₅₀: 14500 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish LC₅₀:

Oncorhynchus mykiss (rainbow trout): 96 h; 35000 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Via licensed disposal company. Dispose of according to federal, state/province and local regulations.



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SECTION 14. TRANSPORT INFORMATION

Non-hazardous for transport.

SECTION 15. REGULATORY INFORMATION

TLV: No data available

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MEDICAL ISOTOPES, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

**For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night**

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