

# SAFETY DATA SHEET

Preparation Date: 1/26/2015

Revision Date: 1/26/2015

Revision Number: G1

Product identifier

**Product code:** D2493  
**Product Name:** DIMETHYL SULFOXIDE-D6, 99.9 ATOM PERCENT D

Other means of identification

**Synonyms:** Hexadeuterodimethyl Sulfoxide  
Please note that this product is not radioactive. The data given for this product are those for the corresponding unlabeled material unless specifically indicated otherwise. Health and safety data for the labeled material are generally unavailable, but are assumed to be similar or identical to the corresponding unlabeled material.

**CAS #:** 2206-27-1  
**RTECS #** Not available  
**CI#:** Not available

Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Flammable liquids	Category 4

Label elements

## Warning

### Hazard statements

Causes eye irritation  
Combustible liquid



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Not available

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Wear protective gloves/protective clothing/eye protection/face protection

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Dimethyl Sulfoxide-d6 99.9 atom % 2206-27-1	2206-27-1	100	*

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

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## 4. FIRST AID MEASURES

<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention.
<b>Eye Contact:</b>	Flush eye with water for 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

### **Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May cause constipation. May cause anorexia. Central nervous system effects. May cause headache. Dizziness. Ataxia. May affect behavior/central nervous system (tremor, convulsions). Analgesia. May cause cardiovascular effects. It may cause transient photophobia and disturbances of vision. May affect respiration. May cause cyanosis. May affect the liver. It may affect the kidneys. May cause hypoglycemia.
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### **Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician:</b>	Treat symptomatically
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### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

## 5. FIRE-FIGHTING MEASURES

### **Extinguishing Media**

<b>Suitable Extinguishing Media:</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray mist or foam.
<b>Unsuitable Extinguishing Media:</b>	High volume water jet. Do not use a solid (straight) water stream as it may scatter and spread fire.

### **Specific hazards arising from the chemical**

<b>Hazardous Combustion Products:</b>	Carbon monoxide; Carbon dioxide; Sulfur oxides; Formaldehyde and Methyl mercaptan may also be formed
<b>Specific hazards:</b>	Combustible material. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

### **Special Protective Actions for Firefighters**

<b>Specific Methods:</b>	Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.
<b>Special Protective Equipment for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

**Environmental precautions** Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

**Methods for cleaning up** Clean contaminated surface thoroughly. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### **Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Protect from light. Sensitive to light. Store in light-resistant containers. Store in a segregated and approved area. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents. Reducing agents. Acids. Bases. Alkali Metals. Acid chlorides. Acid anhydrides. Potassium t-butoxide. boron compounds. Sodium isopropoxide. Dinitrogen tetroxide. Carbonyl diisothiocyanate. Acetanilide. Many acyl, aryl, and nonmetal halides (eg acetyl chloride, benzenesulfonyl chloride, bromobenzoyl actanilide, cyanuric chloride, iodine pentafluoride, Mg(ClO<sub>4</sub>)<sub>2</sub>, CH<sub>3</sub>Br, NiO<sub>4</sub>, oxalyl chloride, P<sub>2</sub>O<sub>3</sub>, phosphorus trichloride, phosphoryl chloride, silver fluoride, silver difluoride, sodium hydride, sulfur dichloride, disulfur dichloride, sulfurylchloride, tetrachlorosilane, and thionyl chloride).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

U.S Occupational Exposure Limits:

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
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Dimethyl Sulfoxide-d6 99.9 atom % - 2206-27-1	None	None	None	None
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## Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
Dimethyl Sulfoxide-d6 99.9 atom % - 2206-27-1	None	None	None	None

## Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
Dimethyl Sulfoxide-d6 99.9 atom % - 2206-27-1	None	None

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

**Eye protection:** Goggles.

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent. .

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid.	<b>Appearance:</b> No information available	<b>Color:</b> Clear. Colorless.
<b>Odor:</b> Slight. Sulfurous. Distinctive garlic or oyster-like.	<b>Taste</b> No information available	<b>Formula:</b> CD3SOVD3
<b>Molecular/Formula weight:</b> 87.14	<b>Flash point (°C):</b> 87	<b>Flashpoint (°C/°F):</b> 87-89 °C/188.6-192.2 °F
<b>Flash Point Tested according to:</b> Closed cup	<b>Lower Explosion Limit (%):</b> 2.6-3.5%	<b>Upper Explosion Limit (%):</b> 28.5-42%
<b>Autoignition Temperature (°C/°F):</b> 300-301 °C/572-574 °F	<b>pH:</b> No information available	<b>Melting point/range(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 189 °C/372°F	<b>Decomposition temperature(°C/°F):</b> No information available	<b>Specific gravity:</b> No information available
<b>Density (g/cm3):</b> No information available	<b>Bulk density:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 0.055
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 2.71	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Completely miscible with water	<b>Solubility:</b> No information available	

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

**Stability:** Stable at normal conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Exposure to light. Exposure to moisture. Exposure to moist air.

**Incompatible Materials:** Oxidizing agents. Reducing agents. Acids. Bases. Alkali Metals. Acid chlorides. Acid anhydrides. Potassium t-butoxide. boron compounds. Sodium isopropoxide. Dinitrogen tetroxide. Carbonyl diisothiocyanate. Acetanilide. Many acyl, aryl, and nonmetal halides (eg acetyl chloride, benzenesulfonyl chloride, bromobenzoyl actanilide, cyanuric chloride, iodine pentafluoride, Mg(ClO<sub>4</sub>)<sub>2</sub>, CH<sub>3</sub>Br, NiO<sub>4</sub>, oxalyl chloride, P<sub>2</sub>O<sub>3</sub>, phosphorus trichloride, phosphoryl chloride, silver fluoride, silver difluoride, sodium hydride, sulfur dichloride, disulfur dichloride, sulfurylchloride, tetrachlorosilane, and thionyl chloride).

**Hazardous decomposition products:** When heated to decomposition it emits toxic fumes. Carbon monoxide. Carbon dioxide. Sulphur oxides. Formaldehyde. Methyl mercaptan. Dimethyl sulfide.

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## Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Skin. Ingestion. Eyes.

### Acute Toxicity

### **Component Information**

*Dimethyl Sulfoxide-d6 99.9 atom % - 2206-27-1*

**LD50/oral/rat** = 14500 mg/kg (LD50 oral Rat for Dimethyl Sulfoxide (CAS no. 67-68-5))

**LD50/oral/mouse** = 7920-21400 mg/kg (LD50 oral Mouse for Dimethyl Sulfoxide (CAS no. 67-68-5))

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = 40000 mg/kg (LD50 dermal Rat for Dimethyl Sulfoxide (CAS no. 67-68-5))

**LC50/inhalation/rat** = >1600 mg/m<sup>3</sup> 4 hr (LC50 Rat for Dimethyl Sulfoxide (CAS no. 67-68-5))

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = 17400 mg/kg LD50 oral Rat (For Dimethyl Sulfoxide (CAS no. 67-68-5))

28300 mg/kg LD50 oral Rat (For Dimethyl Sulfoxide (CAS no. 67-68-5))

### **Product Information**

**LD50/oral/rat =**

**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse =**

**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**

**VALUE-Vapor** = No information available

**VALUE - Gas** = No information available

**VALUE - Dust/Mist** = No information available

### Symptoms

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**Skin Contact:** May cause skin irritation. Mild skin irritation. May cause burning or stinging sensation, redness of the skin, inflammation of the skin.. May cause itching. May cause urticaria (hives). Dimethyl Sulfoxide readily penetrates the skin and may carry other dissolved chemicals into the body. Skin absorption of DMSO may result in garlic-like breath and body odor. If absorbed through skin it may cause systemic effects with symptoms similar to those of ingestion. May cause dyspnea (shortness of breath and difficulty breathing) and cyanosis.

**Eye Contact:** May cause eye irritation. Mild eye irritation. May cause temporary burning sensation and vasodilation. May cause conjunctivitis. May cause conjunctival redness. May cause cataracts. May cause corneal opacity. It may cause transient photophobia and disturbances of vision.

**Inhalation** May cause irritation of respiratory tract. Inhalation of a high concentration of vapors may cause headache, dizziness, and sedation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea  
May cause constipation  
May cause abdominal pain  
May cause decreased appetite or anorexia  
May affect respiration (difficult or labored breathing resulting in shortness of breath)  
May affect respiration (respiratory depression)  
May affect urinary system (kidneys)  
May cause increase in urine volume  
May affect blood (changes in serum composition)  
It may affect the blood (anemia, eosinophilia)  
It may affect the brain  
May affect the cardiovascular system (vasodilation, hypotension, tachycardia, chest pain)  
May affect behavior/central nervous system (ataxia)  
May affect behavior/central nervous system (muscle weakness, convulsions)  
May affect behavior/central nervous system (dizziness, headache)  
May affect behavior/central nervous system (analgesia, fatigue, sedation, tremor)  
May cause hypoglycemia (low blood sugar), which is characterized by symptoms such as blurred vision, chills, cold sweat, dizziness, drowsiness, shaking, rapid heart rate, confusion, weakness, headache, fainting, hunger, tingling of the hands or feet  
May affect liver

**Aspiration hazard** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated ingestion may cause nausea, vomiting, loss of appetite  
Prolonged or repeated ingestion may affect the blood (changes in red blood cell count)  
Prolonged or repeated ingestion may affect the blood (normocytic anemia)  
Prolonged or repeated ingestion may affect the kidneys (polyuria (increase in urine volume, hematuria (blood in the urine), tubular necrosis)  
Prolonged skin contact may cause skin irritation and/or dermatitis  
Chronic exposure may cause drying and scaling of the skin

**Sensitization:** No information available

**Mutagenic Effects:** May affect genetic material  
Mutations in microorganisms  
Experiments with bacteria and/or yeast have shown mutagenic effects  
Mutagenic effects in mammalian somatic cells



**Carcinogenic effects:** Equivocal tumorigenic agent by Registry of Toxic Effects of Chemical Substances (RTECS) criteria.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Dimethyl Sulfoxide-d6 99.9 atom %	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** Showed teratogenic effects in animal experiments  
 Dimethyl Sulfoxide (DMSO) has been associated with teratogenic and/or embryotoxic effects in animals (hamster, mouse, rat), particularly when administered parenterally (intraperitoneal or intravenous routes). DMSO has not been shown to be teratogenic or embryotoxic via oral or dermal routes at dose levels that do not produce overt maternal toxicity  
 No data in humans was available to evaluate the effects of exposure on development

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available  
**STOT - repeated exposure** No information available  
**Target Organs:** Kidneys. Skin. Central nervous system.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.  
**Persistence and degradability:** No information available  
**Bioaccumulative potential:** No information available  
**Mobility:** No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**  
 Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
 Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Dimethyl Sulfoxide-d6 99.9 atom %	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** Not applicable  
**Packing Group:** None  
**ERG No:** No information available  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available

### TDG (Canada)

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

### ADR

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant** No information available  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available

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**14. TRANSPORT INFORMATION**

**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

**IATA**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

**15. REGULATORY INFORMATION****International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Dimethyl Sulfoxide-d6 99.9 atom %	Not Listed	Present KE-11860***	Present***	Not present	Present***	Present***	Present 218-617-0***

**U.S. Regulations****California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.****Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Dimethyl Sulfoxide-d6 99.9 atom %	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Dimethyl Sulfoxide-d6 99.9 atom %	None	None	None	None	None

**U.S. TSCA**

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Dimethyl Sulfoxide-d6 99.9 atom %	Not Applicable	Not Applicable

**Canada****WHMIS hazard class:**

B3 Combustible liquid

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**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Dimethyl Sulfoxide-d6 99.9 atom %	Present***	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Dimethyl Sulfoxide-d6 99.9 atom %	Not listed	Not listed

**EU Classification****R-phrase(s)**

not determined

**S -phrase(s)**

none

Components	Classification	Concentration Limits:	Safety Phrases
Dimethyl Sulfoxide-d6 99.9 atom %		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Not dangerous

**16. OTHER INFORMATION**

**16. OTHER INFORMATION**

NFPA	HMIS	Personal Protective Equipment
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Health Hazard	1
Fire Hazard	2
Reactivity	0



Preparation Date: 1/26/2015  
Revision Date: 1/26/2015  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**