

MATERIAL SAFETY DATA SHEET
 Methyl sulfoxide-d6

Section 1 - Chemical Product and Company Identification

| | |
|---|--|
| MSDS Name: | Methyl sulfoxide-d6 |
| Catalog Numbers: | 16629-0000, 16629-0100, 16629-0500, 16629-1000, 16902-0000, 16902-0050, 16902-0250, 17489-0000, 17489-0500, 17489-2500, 18115-0000, 18115-0100, 18115-0250, 18115-0500, 21733-0000, 21733-0010, 21733-0100, 21734-0000, 21734-0010, 21734-0050, 32076-0000, 32076-0075, 32077-0000, 32077-0075, 32129-0000, 32129-0010, 32129-0100, 32537-0000, 32537-0050, 35144-0000, 35144-0075, 35145-0000, 35145-0100, 35145-0250, 35254-0000, 35254-0075, 36000-0000, 36000-0100, 36000-0500, 36465-0000, 36465-0100, 36465-0500, 36465-1000 |
| Synonyms: | Dimethyl-d6 sulfoxide |
| Company Identification: | Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium |
| Company Identification: (USA) | Acros Organics One Reagent Lane Fair Lawn, NJ 07410 |
| For information in the US, call: | 800-ACROS-01 |
| For information in Europe, call: | +32 14 57 52 11 |
| Emergency Number, Europe: | +32 14 57 52 99 |
| Emergency Number US: | 201-796-7100 |
| CHEMTREC Phone Number, US: | 800-424-9300 |
| CHEMTREC Phone Number, Europe: | 703-527-3887 |

Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name: | % | EINECS# |
|-----------|---------------------|---|-----------|
| 2206-27-1 | Methyl sulfoxide-d6 | | 218-617-0 |

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

| | |
|--------------------|--|
| Eye: | May cause eye irritation. |
| Skin: | May cause skin irritation. Substance is rapidly absorbed through the skin. |
| Ingestion: | Ingestion of large amounts may cause gastrointestinal irritation. |
| Inhalation: | May cause respiratory tract irritation. |
| Chronic: | Prolonged or repeated skin contact may cause dermatitis. |

Section 4 - First Aid Measures

- Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion:** Get medical aid. Wash mouth out with water.
- Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Will burn if involved in a fire. Combustible liquid.
- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not flush into a sewer. Remove all sources of ignition.

Section 7 - Handling and Storage

- Handling:** Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
- Storage:** Keep away from heat, sparks, and flame. Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 2206-27-1:

Personal Protective Equipment

- Eyes:** Wear chemical splash goggles.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: colorless

Odor: characteristic odor

pH: Not available

Vapor Pressure: 2.5mbar @20 deg C
Viscosity: 2.4 mPa.s @20 deg C
Boiling Point: 190 deg C @760mmHg (374.00°F)
Freezing/Melting Point: 20.2 deg C (68.36°F)
Autoignition Temperature: 270 deg C (518.00 deg F)
Flash Point: 88 deg C (190.40 deg F)
Explosion Limits: Lower: 1.8 Vol %
Explosion Limits: Upper: 63 Vol %
Decomposition Temperature:
Solubility in water: Soluble
Specific Gravity/Density: 1.190
Molecular Formula: C2D6OS
Molecular Weight: 84.18

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.
Conditions to Avoid: Incompatible materials, exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, strong acids, acid chlorides, perchloric acid, phosphorus halides.
Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide, formaldehyde.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 2206-27-1: None listed
LD50/LC50: RTECS: Not available.
Carcinogenicity: Methyl sulfoxide-d6 - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

| | IATA | IMO | RID/ADR |
|-----------------------|----------------|----------------|----------------|
| Shipping Name: | Not regulated. | Not regulated. | Not regulated. |
| Hazard Class: | | | |
| UN Number: | | | |
| Packing Group: | | | |

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 2206-27-1: Not available

Canada

CAS# 2206-27-1 is listed on Canada's DSL List

US Federal

TSCA

CAS# 2206-27-1 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information

MSDS Creation Date: 5/11/2001

Revision #2 Date 6/10/2004

Revisions were made in Sections: General revision.

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