

# SAFETY DATA SHEET

## DIMETHYL SULFOXIDE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Dimethylsulfoxide  
Catalog Number: DMS555/DMS666

### SECTION 2 HAZARDS IDENTIFICATION

**Emergency overview:**

**GHS Classification:**  
Flammable liquids (category 4)

**Pictogram:** none

**Signal Word:** Warning

**Hazard Statement:**  
H227 Combustible liquid

**Precautionary Statements:** none

**Potential Health Effects:**

**Target Organs:** None known  
**Eyes:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Inhalation:** May cause irritation. May be harmful  
**Ingestion:** May be harmful if swallowed  
**CHRONIC HEALTH HAZARDS:** Not available

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	EC-No	%
Dimethyl sulfoxide	67-68-5	200-664-3	99+

**Molecular Formula:** C<sub>2</sub>H<sub>6</sub>O  
**Molecular Weight:** 78.13 g/mol

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.  
**Skin:** Flush area immediately with plenty of soap and water .  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration .Get medical attention if symptoms persist.

**Ingestion:** Wash mouth with water.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.  
**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits: none listed**  
Use adequate ventilation. Avoid dust generation..  
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Use appropriate exhaust ventilation .  
**Respiratory protection:** use OSHA/MSHA approved dust masks.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid, clear  
**Freezing/Melting Point:** N/A  
**Boiling Point:** 189C  
**Specific Gravity:** N/A  
**Flash point:** 87C  
**Vapor Density:** N/A  
**Solubility:** N/A  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

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**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** Flammable sources. Excess heat  
**Incompatibility:** Strong oxidizing and reducing agents . acid chlorides  
**Hazardous Decomposition Products:**, carbon monoxides and sulfur oxides  
carbon dioxide,  
**Hazardous Polymerization:** Will not occur

believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50 / LC50:  
Oral, rat LD50= 14,000 mg/kg

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity:

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

DOT (US): not regulated

IMDG: not regulated

IATA: not regulated

### SECTION 15 REGULATORY INFORMATION

**US:** TSCA: listed

**European/International:** Avoid contact with skin and dust.

**Canada:** WHMIS: not controlled

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Dec 29/2021

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is