



**SILVER FERN**  
CHEMICAL INC

# Safety Data Sheet

(Dimethyl Isosorbide)

## Section 1. Product and Company Identification

**Product Name** Dimethyl Isosorbide  
**CAS Number** 5306-85-4

**Distributor:**  
Silver Fern Chemical, Inc.  
2226 Queen Anne Ave N, Suite C  
Seattle, WA 98109 USA

**EMERGENCY RESPONSE NUMBER:**  
INFOTRAC  
Toll Free US & Canada: 1(800) 535-5053  
Outside USA & Canada: 1(353) 323-3500

Customer Service: (866)  
info@silverfernchemical.com

## Section 2. Hazards Identification

### Classification of the substance or mixture

Not classified as a hazardous substance or mixture

### GHS Label Elements

**Pictograms:** N/A

**Signal word:** N/A

### Hazard and precautionary statements

None

### Emergency Overview

**Color:** Clear, Colorless

**Form:** Liquid

**Odor:** Slight Odor, Characteristic

All ingredients not confirmed on the TSCA Section 8(b) Inventory. For TSCA-exempt purposes only.

May cause eye irritation

Limited toxicity data are available on this specific product; this health hazard assessment is based on the results of screening tests.

### Routes of Exposure

**Eye contact:** May cause eye irritation.

**Skin contact:** No irritation is likely to develop following contact with human skin. Systemically toxic concentrations of this product will probably not be absorbed through human skin.

**Inhalation:** This material may cause irritation following inhalation. No toxic effects are known to be associated with inhalation of this material.

**Ingestion:** In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product. No toxic effects are expected following ingestion of this product.

**Other:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.



Section 3. Composition / Information on Ingredients

**Common Name** Dimethyl Isosorbide  
**Synonym(s)** Isosorbide dimethyl ether  
**CAS Number** 5306-85-4

COMPONENT	CAS NUMBER	CONCENTRATION
Dimethyl Isosorbide	5306-85-4	90 - 100% wt.

Section 4. First Aid Measures

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

**Skin contact:** Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.

**Inhalation:** Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

**Ingestion:** Do not induce vomiting. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

Section 5. Firefighting Measures

**Flash Point (Closed Cup):** 118°C

**Autoignition Temperature:** No data.

**Flammable Limits:** No data.

**Extinguishing Media:** Water fog, alcohol foam, carbon dioxide, dry chemical.

**Special firefighting protective equipment:** A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

**Fire and explosion hazards:** None known.

**Explosion data**

**Sensitivity to mechanical impact:** No data.

**Sensitivity to static discharge:** No data.

Section 6. Accidental Release Measures

**Personal Precautions:** Refer to section 8 for proper personal protective equipment.

**Steps to be taken in case material is released or spilled**

Contain spill. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water and flush to a sewer serviced by a permitted wastewater treatment facility.

Section 7. Handling and Storage

**Handling:** Prevent eye contact. Prevent skin contact. Avoid breathing this material. Do not swallow.  
**Storage:** Store in the original packing in a cool dry place.

Section 8. Exposure Controls / Personal Protection

**Exposure Limits**

**OSHA PEL:** No OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

**ACGIH TLV:** No ACGIH TLV assigned. Minimize exposure in accordance with good hygiene practice.

**Engineering controls:** Provide adequate ventilation.

**Eye protection:** Chemical tight goggles.

**Protective clothing:** Impervious gloves.

**Respiratory protection:** Not normally needed if controls are adequate.

**Other:** Eyewash station in work area.

Section 9. Physical and Chemical Properties

**Color:** Clear, Colorless

**Form:** Liquid

**Odor:** Slight odor, Characteristic

**pH:** No data

**Boiling Point:** > 112.2°C

**Flash Point (Closed Cup):** 118°C

**Autoignition Temperature (C):** No data

**Flammable Limits:** No data

**Explosive Properties:** No data

**Oxidizing Properties:** No data

**Vapor Pressure:** ~ 2.0000 mmHg

**Specific Gravity:** ~1.16

**Solubility (water):** Soluble

**Solubility (other):** Soluble, in all common solvents

**Partition Coefficient:** -2.1

**Kinematic viscosity:** ~6 mm<sup>2</sup>/s (cs)

**Freezing/melting point:** < -56.72°C

Section 10. Stability and Reactivity

**Stability:** Stable under normal conditions.

**Materials to avoid:** Strong oxidizing agents.

**Conditions to avoid:** None known.



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**Hazardous decomposition products:** Carbon dioxide, carbon monoxide.

**Hazardous polymerization:** Will not occur.

#### Section 11. Toxicological Information

**Eye Contact:** A 100% suspension of Rabbit Draize 7 days Mildly 1964-1968 this material was tested. Irritating

**Skin Contact:** A 100% suspension Rabbit Draize 72 hours Nonirritating 27 Aug 1963 of this material was tested.

**Dermal Toxicity:** 100% LD50 Rabbit > 10 ml/kg 24 hours Practically 2nd March 1973 nontoxic summary

**Ingestion:** A 100% suspension of LD50 rat > 4.64 ml/kg Practically 19 Nov 1957 this material was tested. Nontoxic

**Chronic:** Chronic effects are unlikely. A study in animals has shown that repeated doses produce no teratogenic effects. Ingestion studies in animals have shown that high doses produce adverse effects to liver and kidneys rat An ingestion study in animals has shown that repeated doses produce no significant effects (dog). The no effect level was 30 mg/kg.

**Mutagenicity:** There is no evidence of mutagenic or clastogenic potential.

**Toxicologically synergistic products:** None known.

#### Section 12. Ecological Information

**Persistence & Degradation:** Biological Oxygen Demand (BOD 28 DAY/COD) Modified OECD 301C Test procedure <1 %

**Toxicity:** EC50 (48 hour) (static) Daphnia magna > 1000 mg/l

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**Department of Transportation:** Not regulated.

**TDG (Transportation of Dangerous Goods):** Not regulated.

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA-DGR.

#### Section 15. Regulatory Information

##### Inventory Status

**EU (EINECS/ELINCS/NLP):** Compliant

**Australia (AICS):** Compliant

**China (IECSC):** Compliant

**Korea (ECL):** Compliant

**Philippines (PICCS):** Compliant

**OSHA Hazard Communication Standard, 29 CFR 1910.1200, Hazard Summary:**

**Health Hazards:** Irritant (eye)

**Physical Hazards:** None

**WHMIS Classification:** Non-controlled (Nonhazardous).

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This material contains the following chemicals subject to the reporting requirements of SARA 313: No 313-listed chemicals in this product.

**SARA 311/312 Hazard Categories:**

**Immediate:** Y

**Delayed:** N

**Fire:** N

**Pressure:** N

**Reactivity:** N

**State Regulations:** California Proposition 65: WARNING. This product contains the following chemical(s) known to the State of California to cause cancer. Values listed are percent weight, i.e 0.0001 = 1ppm.

Formaldehyde 0.0035

**HMIS Rating**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

Section 16. Other Information
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**Disclaimer:**

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

REVISION DATE: 12/21/2016