

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 308.10

Revision Date: July 1, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Dimethyl Sulfoxide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Dimethyl sulfoxide

Synonym: methyl sulfoxide, DMSO

CAS#: 67-68-5

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid. Odor of smoked oysters.

Combustible liquid. Substance considered nonhazardous. However, not all health aspects of this substance have been investigated.

This substance is readily absorbed through the skin and will allow any substance dissolved in it to also be absorbed through the skin. Take caution when using this substance as a solvent.

FLINN AT-A-GLANCE

Health-0

Flammability-1

Reactivity-0

Exposure-0

Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible liquid.

Flash Point: 203 °F Upper: 42% (63%) Lower: 3.5% Autoignition Temperature: 573 °F

When heated to decomposition, emits toxic fumes of SO_x.

Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-1

F-1

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #7. Store with sulfides, polysulfides, sulfoxides, and nitriles.

Use and dispense in a hood. Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid. Odor of smoked oysters.
Solubility: Soluble in water and most organic solvents.
Formula: (CH₃)₂SO
Formula Weight: 78.14

Boiling Point: 189 °C
Melting Point: 18 °C
Specific Gravity: 1.101

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acid chlorides, phosphorus halides, strong acids, strong oxidizers, and strong reducers.
Shelf life: Fair

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Sensitizer, irritant.
Chronic effects: N.A.
Target organs: Eyes, skin.

ORL-RAT LD₅₀: 14500 mg/kg
IHL-RAT LC₅₀: N.A.
SKN-RBT LD₅₀: 40 g/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.
Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Not regulated
Hazard Class: N/A
UN Number: N/A
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-664-3).

SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**