FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 308.10

Revision Date: April 2, 2001

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 not considered hazardous. 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, 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 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

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

Section 5 — Fire Fighting Measures

Combustible liquid. NFPA Code

When heated to decomposition, emits toxic fumes of SOx.

H-1

Flash Point: 203 F Upper: 42% (63%) Lower: 3.5% Autoignition Temperature: 573 F F-1

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE R-0

and SCBA with full facepiece operated in positive pressure mode.

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material; deposit in 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 chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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

Section 10 — Stability and Reactivity

Avoid contact with acid chlorides, phosphorus halides, strong acids, strong oxidizers, 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 gm/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

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Improve Safety--Use Flinn Chemicals

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