

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 308.60

Revision Date: January 20, 2015

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1,2-Dimethoxyethane

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

Hazard class: Reproductive toxicity (Category 1B). May damage fertility or the unborn child (H360). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Forms explosive peroxides upon concentration or distillation.

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
1,2-Dimethoxyethane	110-71-4	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub>	90.12	
Synonyms: Glyme; Ethylene glycol dimethyl ether; Dimethyl cellosolve; Monoglyme				

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If on skin:** Wash with plenty of water (P302+P352). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Do not induce vomiting. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.

Flash point: -2 °C Autoignition Temperature: 202 °C

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher (P370+P378). Water may be ineffective.

NFPA CODE

H-1

F-3

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, and halogenated hydrocarbons. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241). Use only non-sparking tools (P242). Take precautionary measures against static discharge (P243).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear, colorless liquid. Sweet, ethereal odor.

Soluble in hydrocarbon solvents. Miscible with water, alcohol, and ether.

Boiling point: 82-85 °C

Melting point: -69 to -58 °C

Specific gravity: 0.867

Vapor density: 3.1

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**SECTION 10 — STABILITY AND REACTIVITY**

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Air sensitive. Avoid heat, sunlight, and ignition sources. Reacts with acids, bases, oxidizing agents. May form explosive peroxides on long storage or exposure to heat or light.

Shelf life: Poor, avoid prolonged storage.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Skin irritation.

ORL-MUS LD<sub>50</sub>: 3200 mg/kg

Chronic effects: Possible teratogen

IHL-RAT LCL<sub>0</sub>: 63 g/m<sup>3</sup>/6H

Target organs: Blood, liver, kidneys, CNS, reproductive systems

SKN-RBT LD<sub>0</sub>: 2 g/kg

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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EC<sub>50</sub> Daphnia: 4000 mg/L/48H

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #15 is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: 1,2-Dimethoxyethane. Hazard class: 3. UN number: UN2252.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA listed

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**SECTION 16 — OTHER INFORMATION**

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

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