

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 508.10

Revision Date: October 19, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

2-Methoxyethanol

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

2-Methoxyethanol

Synonym: Ethylene glycol, monomethyl ether; Methyl cellosolve (registered trademark); Methoxyhydroxyethane

CAS#: 109-86-4

SECTION 3 — HAZARDS IDENTIFICATION

Colorless, volatile liquid with an odor like alcohol.

Moderately toxic by ingestion, inhalation, and skin absorption. Irritating to body tissues. Avoid all body tissue contact. Alleged to be a teratogen.

Combustible liquid.

FLINN AT-A-GLANCE

Health-2

Flammability-2

Reactivity-1

Exposure-2

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

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

SECTION 5 — FIRE FIGHTING MEASURES

Class II Combustible liquid.

Flash point: 39 °C Flammable limits: Lower: 1.8% Upper: 14% Autoignition Temperature: 285 °C

When heated to decomposition, emits acrid smoke and irritating fumes.

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-2

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 #4. Store with ethers, ketones, halogenated hydrocarbons, and ethylene oxide. Use and dispense in a hood.

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 ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 25 ppm (absorbed through the skin) (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, volatile liquid with an odor like alcohol.

Solubility: Soluble in water, alcohol, and ether.

Formula: $\text{CH}_3\text{OCH}_2\text{CH}_2\text{OH}$

Formula weight: 76.096

Boiling point: 125 °C

Melting point: -85 °C

Specific gravity: 0.9647

Vapor Density: 2.62

Vapor pressure: 6.2 mmHg

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acid chlorides, acid anhydrides, oxidizing agents, heat, flame or any sources of ignition.

Shelf life: Good, if stored properly

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, nausea, headache, vomiting

Chronic effects: Teratogen, reproductive hazard

Target organs: Male/female reproductive system

ORL-RAT LD₅₀: 2370 mg/kgIHL-RAT LC₅₀: 1500 ppm/7HSKN-RBT LD₅₀: 1280 mg/kg

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

SECTION 12 — ECOLOGICAL INFORMATION

LC₅₀(fish) 96-hour test: >100 mg/L. Not expected to be toxic to aquatic life.

SECTION 13 — DISPOSAL CONSIDERATIONS

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

Flinn Suggested Disposal Method #18a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Ethylene glycol monomethyl ether

Hazard class: 3, Flammable liquid.

UN number: UN1188

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (203-713-7), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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