# FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

MSDS #: 326.00

Revision Date: July 13, 1996

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Ethyl Alcohol

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

Ethyl Alcohol Synonym: ethanol CAS#: 64-17-5

#### SECTION 3 — HAZARDS IDENTIFICATION

Clear liquid; strong alcohol odor.

Toxic by ingestion and inhalation. Body tissue irritant. Avoid all body tissue contact. Denatured with isopropanol and methanol. Not for human consumption.

Flammable liquid.

FLINN AT-A-GLANCE

Health-3 Flammability-3 Reactivity-1 Exposure-1 Storage-3

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: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

#### SECTION 5 — FIRE FIGHTING MEASURES

Class IB Flammable liquid.	NFPA CODE	
Flash Point: 48 F Upper: 24.5% Lower: 3.3% Autoignition Temperature: 683 F	H-0	
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear	F-3	
PPE and SCBA with full facepiece operated in positive pressure mode.	R-0	

#### 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 #2. Store with alcohols, glycols, amines and amides.

Use and dispense in a hood. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can.

### 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 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 1000 ppm (OSHA)

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#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid; strong alcohol odor.

Solubility: Miscible with water and many organic solvents.

Formula: C2H5OH Formula Weight: 46.07 Specific Gravity: .785 Melting Point: -130 C Boiling Point: 78 C

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, and alkali metals, ammonia, moisture, heat, open flame or any source of ignition.

Shelf life: Excellent, if stored safely.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Poison, irritant, nausea, dizziness and headache

Chronic effects: N.A.

Target organs: Eyes, liver, kidneys, nerves

ORL-RAT LD50: 7060 mg/Kg IHL-RAT LC50: 20000 ppm/10H

SKN-RBT LD50: N.A.

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 #26b is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Ethyl alcohol Hazard Class: 3, Flammable liquid

UN Number: UN1170 N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-578-6), RCRA code D001.

#### SECTION 16 — OTHER INFORMATION

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# Consult your copy of the Flinn Chemical Catalog/Reference Manual for additional information about laboratory chemicals