Educational Innovations, Inc. Material Safety Data Sheet (MSDS)

MSDS #: 326.00

Revision Date: November 1, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ethyl Alcohol

Educational Innovations, Inc. 5 Francis J. Clarke Cir. Bethel, CT 06801 (203) 748-3224

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 sold for human consumption. Flammable liquid.

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 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 IB flammable liquid.	NFPA CODE
Flash point: 9 °C Flammable limits: Lower: 3.3% Upper: 24.5% Autoignition Temperature: 362 °C	H-2
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	F-3
SCBA with full facepiece operated in positive pressure mode.	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 absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Store with alcohols, glycols, amines, and amides. Use and dispense in a hood. Store in a dedicated flammables cabinet.

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: PEL 1000 ppm (OSHA)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid with a strong alcohol odor.

Solubility: Miscible with water and many organic solvents.

Formula: C₂H₅OH Formula weight: 46.07 Boiling point: 78 °C Melting point: -114 °C Refractive index: 1.3611 Specific gravity: 0.7893

SECTION 10 — STABILITY AND REACTIVITY

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

Shelf life: Excellent, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Poison, irritant, nausea, dizziness, 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 review all federal, state and local regulations that may apply, before proceeding.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Ethyl alcohol solution 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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