

MATERIAL SAFETY DATA SHEET

Innovating Science M by Aldon Corporation 221 Rocknester Street

"cutting edge science for the classroom" Aver, NY 14414-9499

MSDS No.:

EE0080

Revision Date: April 29, 2009 Approved by: James A. Bertsch

MSDS No.: EE0080 Chemical Product and Company Information Section 1

ETHYLALCOHOL, DENATURED, (190 PROOF) Product

Synonyms

CHEMITREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Composition			
Chemical Name	CAS#	%	TLV Units (ACGIH 2001)
Ethyl alcohol Water	64-17-5 7732-18-5	95% 5%	TWA: 1000 ppm None established.
Denaturants: Methyl alcohol Methyl isobutyl ketone Isopropyl alcohol	67-56-1 108-10-1 67-63-0		TWA: 200 ppm; STEL: 250 ppm TWA: 50 ppm; STEL: 75 pm TWA: (400) ppm; STEL: (500) ppm

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Emergency Overview

DANGERI FLAMMABLEI

HARMFUL IF SWALLOWED.

Avoid prolonged or repeated inhalation of vapor. Overexposure may be harmful.

Keep away from heat, sparks and open flame.

Target organs: Eyes, central nervous system, liver, kidneys.

0=	Min/maf
1 =	Slight

2 = Moderate Reactivity 3 = Serious

> Contact HMIS '

> > **NFPA**

0 = Minimal1 = Slight

2 = Moderate 3 = Serious

4 = Severe

3

0

2

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower evelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5. Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic geses may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Fires involving a small amount of combustibles may be smothered by dry chemical. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Extinguishing Media: Carbon dioxide, dry chemical, water spray, alcohol foam.

Flash Point: 5°C (41°F)*

*(For Ethanol, 200 proof)

Autoignition temperature: 400°C (752°F)*

Explosion Limits: Lower: 4,0% (V) Upper: 20,0% (V)*

Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Remove all sources of ignition. Provide adequate ventilation. Recover for use if not contaminated. Absorb with Inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 127)

Section 7 Handling & Storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse. Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborns concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chamical Properties

Physical state: Liquid. Appearance: Clear, colorless.

pH: N/A

Vapor pressure (mm Hg): Ca 50 @ 20°C * Vapor Dansity (Air = 1): Ca 1.5 *

Odor: Mild characteristic odor.

Evaporation rate (Butyl acetate = 1): Ca 2 *

Viscosity: N/A

*(For Ethanol, 200 proof) Boiling point: 74-80°C (165.2-176°F) * Freezing / Melting point: -114°C (-173°F) *

Decomposition temperature: N/A

Salubility: Complete.

Specific gravity ($H_2O = 1$): 0.7919-0.7955 @ 60/60°F *

FLAMMABLE STORAGE CODE RED

Percent volatile (%): 100% Molecular formula: Mixture. Molecular weight: Mixture.

Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatibilities with other materials: Strong oxidizers, inorganic acids and halogens.

Hazardous decomposition products: Oxides of carbon.

Toxicological information

Effects of overexposure: Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma. Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Contact with skin causes irritation defatting on prolonged contact. Contact with eves may cause blindness.

ORL-RAT LD50: 7060 mg/Kg IHL-RAT LC50; 20000 ppm/10H SKN-RBT LD50: N.A.

Section 12 Ecological Information

Data not yet available.

Section 12 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 4 Transport information

UN/NA number: UN1170 Shipping name: Ethanol Hazard class: 3 Packing group: II Exceptions: Ltd Qtv £ 1 Lt.

Section 15 Regulatory Information

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

Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent daterminations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards,