

MSDS No. EE0076
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Section 1 Chemical Product and Company Information

Product ETHYL ALCOHOL, DENATURED, 95%
Synonyms N/A

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

Section 2 Hazards Identification

Emergency Overview

DANGER! FLAMMABLE!
VAPOR HARMFUL. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.
Keep away from heat, sparks, flame and all other ignition sources. Avoid breathing vapor. Use with adequate ventilation. Do not get in eyes, on skin or on clothing.
Target organs: Eyes, central nervous system, liver, kidneys.

1	Health	1
2	Fire	3
3	Reactivity	0
4	Contact	2

HMIS*

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Ethyl alcohol, denatured*	64-17-5 7732-18-5	95% 5%	TWA: 1000 ppm None established.
*Denaturants: Isopropyl alcohol Methyl alcohol	67-63-0 67-58-1		TWA: 400 ppm STEL: 500 ppm PEL-TWA: 200 ppm STEL: 250 ppm

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 eyelids 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 gases 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 may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at location distant from handling source. **CAUTION!** Flame may not be visible in daylight.

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

Flash Point: 10°C (50°F) FCC

Autoignition temperature: 463°C (865°F)

Explosion Limits: Lower: 3.3% Upper: 19.1%

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.

NFPA

3	Health
2	Flammability
0	Reactivity

Section 7 Handling & Storage

FLAMMABLE STORAGE CODE RED
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 face shield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

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

Section 9 Physical & Chemical Properties

Physical state: Liquid
Appearance: Clear, colorless
Odor: Mild, characteristic odor
pH: N/A
Boiling point: 75-80°C (173-174°F)
Freezing / Melting point: -114°C (-73°F)
Decomposition temperature: N/A
Solubility: Complete
Specific gravity (H₂O = 1): 0.794 @ 20°F
Percent volatile (%): 100%
Molecular formula: Mixture
Molecular weight: Mixture

Section 10 Stability & Reactivity

Chemical stability: Stable
Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition
Incompatibilities with other materials: Contact with acetyl chloride and a wide range of oxidizing agents may react violently. Vapors may form flammable mixtures with air.
Hazardous decomposition products: Oxides of carbon

Section 11 Toxicological Information

Effects of overexposure: **INGESTION:** Can cause central nervous system depression, nausea, vomiting, diarrhea. **INHALATION:** May cause headache, drowsiness, loss of appetite, inability to concentrate and irritation of the throat. **EYES:** Liquid or vapor may cause irritation. **SKIN:** May cause irritation and delating of skin on prolonged contact. **OTHER:** Individual responses to Methyl alcohol vary, ingestion of less than 30 ml has been fatal to humans. In general a few ounces may cause blindness and death, as little as 1 ml may be toxic if ingested

ORL-RAT LD50: N/A

IHL-RAT LC50: N/A

SKN-RBT LD50: N/A

Section 12 Ecological Information

Data not yet available.

Section 13 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 14 Transport Information

UNNA number: UN1170

Shipping name: Ethanol

Hazard class: 3

Packing group: II

Exceptions: Lid Qty ≤ 1 LL

Section 15 Regulatory Information

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

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employees should use this information only as a supplement to other information gathered by them and must make independent determinations 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

