



Safety Data Sheet

Ethyl Alcohol 200 Proof

Product Information (541)201-1050/ Emergency Assistance INFOTRAC 800-535-5053

Section I: Identification of Substance/ Product and of Company

Product Identifier: Ethanol

Synonyms: Ethyl Alcohol Absolute; Anhydrous Ethanol; Ethyl Alcohol 100%; Ethanol

Other Identification: CAS No. 64-17-5

EINECS No. 200-578-6

Formula: C₂H₅OH

Manufacturer/ Distributor:

Alchemical Solutions, LLC
Ashland, Oregon USA
Phone (541)201-1050
Fax (541)482-6564

2305 Ashland Street
Suite C- PMB #442
Ashland, OR 97520

Recommended Use: General purpose organic solvent

Emergency Contact: InfoTrac 800-535-5053

Section II: Hazards Identification

Emergency Overview:

Hazardous. Flammable Liquid. Material can burn with no visible flame. May cause irritation to eyes, skin, respiratory and central nervous system.

OSHA Hazards: Flammable Liquid, Target Organ Effect, Irritant

Exposure/ Potential Health Effects:

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Compliance: Quality Assurance: Forms: SDS200-Proof v1.9: CP2/23 Ashland, Oregon

Skin: No harmful effects with normal skin. May cause dermatitis with repeated contact.
Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging of eyes. At high concentrations may cause irritation, dizziness, faintness, drowsiness, nausea and vomiting. Long term may cause coma or respiratory failure.
Eye: May cause irritation including stinging, tearing, and redness. May cause corneal damage and conjunctivitis.
Long Term Oral Exposure: gastrointestinal irritation with nausea, vomiting, and diarrhea. Long term oral exposure may result in liver injury with fibrosis.
Other Health Hazards: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus. Repeated exposure may aggravate liver injury produced from other causes.

NEPA



GHS label elements

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Signal Word: **Danger**

Hazard Statements:

H225

Highly flammable liquid and vapor.

H319

Causes serious eye irritation.

Precautionary Statements:

P501

Dispose of contents and container to an approved

waste disposal plant.

P240

Ground/bond container and receiving equipment.

P337 + P313

If eye irritation persists: Get medical attention.

P305 + P351 + P338

If in eyes rinse with water for several minutes. Remove

contact lenses.

Seek medical attention.

P303 + P361 + P353

If on skin remove immediately any contacted clothing and

rinse with

water.

P370 + P378

In case of fire use dry sand, chemical, or alcohol-

resistant foam.

P210

Keep away from sparks, heat, flame, and hot

surfaces. No smoking

P233

Keep container tightly closed.

P403 + P235

Store in cool, well-ventilated place.

P243

Take measures of precaution against static

discharge.

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P241 Use only explosion-proof electrical, lighting and ventilating equipment.
 P242 Use non-sparking tools.
 P264 Wash hands after handling.
 P280 Wear protection for eye, face and hands.

Section III: Composition/ Information on Ingredients

Chemical Identity: Alcohol
 Common name: Ethyl Alcohol 100%, Ethanol, Ethyl Alcohol Absolute
 CAS #: 64-17-5
 ICSC#: 0044
 EINECS #: 200-578-6
 RTECS #: KQ6300000
 UN #: UN1170
 EC #: 603-002-22-5

% Weigh	Material	CAS	Exposure Limi
(100%v/v)	Ethyl Alcohol	64-17-5	1000ppm TWA

Section IV: First Aid

General Advice: Take proper precautions for your own health and safety. Contact a physician for all cases of over-exposure.

Swallowing: If patient is fully conscious, give water. Do not induce vomiting. If vomiting does occur, have victim lean forward to prevent choking. Obtain medical attention.

Skin: Wash skin with soap and water for at least fifteen minutes. Contact physician if irritation persists.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Get medical attention.

Eyes: Flush eyes with water for at least fifteen minutes. Get medical attention.

Note to Physicians: Symptoms vary with alcohol levels of the blood. Mild alcohol intoxication occurs at blood levels between 0.5-.15%. Approximately 25% of individuals show signs of intoxication at these levels. Above .15% the person is definitely under the influence of ethanol; 50-95% of individuals are clinically intoxicated at these levels. Severe poisoning occurs when the blood is ethanol level is 0.3-0.5%. Above 0.5% the individual will be comatose and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs or the excessive administration of fluids.

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Section V: Fire Fighting Measures

Fire/Explosive Properties:

Flash Point: 55F(13C) Tag Closed Cup

Autoignition Temperature: 685F(363C)

Flammability Classification: 3(NFPA)

IB Flammable Liquid(OSHA, NFPA)

Suitable(and unsuitable) extinguishing media:

Small Fire: Use dry chemicals, CO2, alcohol-resistant foam or water spray.

Large Fire: Use alcohol-resistant foam, water spray or fog. Flood affected containers with water to cool.

Specific Hazards from chemical: Carbon Monoxide is a primary combustion product.

Unusual Fire and Explosion Hazards:

Vapors may travel to source of ignition and flash back.

Vapors may settle in low places.

Re-ignition is possible.

Keep unopened containers cool by spraying with water.

Use self-contained breathing apparatus and protective clothing.

Static ignition hazard can result from handling and use.

Floating fire hazard may be produced.

Note:

Personnel may only be able to feel the heat as alcohol may burn with a pale blue flame that is extremely hard to see. Use extreme caution. Use maximum distance to fight fires or use unmanned hose holders. Cool containers with water flooding well after fire is out. Withdraw immediately if sound from venting safety devices or discoloration of tank occurs. Stay away from engulfed tanks.

Section VI: Spill/Accidental Release Measures

Evacuate personnel to safe areas. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Beware vapor accumulation.

Small spills can be flushed with large amounts of water.

Large spills: Eliminate all ignition sources. Extremely flammable liquid. Ground all equipment, do not walk through spill; stop spill if possible to prevent entry into sewers or drains. Use vapor suppressing foam to reduce vapors. Absorb spill with non-combustible matter and transfer to containers. Use non-sparking tools.

Section VII: Handling and Storage

Safe Handling:

Flammable Material.

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Keep away from heat, sparks, flame and sudden releases of hot organic vapors or mists.
 Keep away from processing equipment.
 No smoking.
 Take measures to ensure no electrostatic build-up.
 Treat containers as hazardous.
 Metal containers should be bonded and grounded.
 Avoid contact with eyes.
 Do not inhale.
 Use adequate ventilation, vapors may settle into low areas.
 Wash thoroughly after contact.
 Open and handle with care.

Safe Storing:
 Keep container closed.
 Keep in cool, dry and ventilated area.
 Carefully reseal and keep upright to prevent leakage.
 Consult local fire codes for additional storage information.

Section VIII: Exposure Controls/ Personal Protection

Biological limit values:

Component Notes	Source	Type	Value	
Ethyl Alcohol	US (OSHA)	TWA	1000 ppm/1,900 mg/m3	29 CFR 1910.1000 Table z-1 Limits for Air Contaminants
Ethyl Alcohol	US (OSHA)	IDHL	3300 ppm	None
Ethyl Alcohol	US (ACGIH)	STEL	1000 ppm	Upper respiratory tract irritation confirmed animal carcinogen with unknown relevance to humans

Ventilation: Special, Local ventilation is needed where vapors escape to the workplace air.

Respiratory Protection: Use self-contained breathing apparatus in high vapor concentration. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
 Personal Protective Equipment: gloves, lab-coat or uniform, safety glasses or goggles, eye wash fountain and quick drench facilities.
 Hygiene measures: Use good industrial hygiene and safety practices. Wash hands beginning, end of workday and at breaks.

Section IX: Physical and Chemical Properties

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Appearance: clear, colorless liquid
Odor: characteristic
Vapor pressure: 59.5 hPa(44.6 mmHg)at 20C(68 F) (for 100% ethanol)
Vapor Density: 1.6(air=1)
Boiling point: 78.3 C(172.9 F)
Freezing point: -114C(-173F)
Solubility in Water: 100% @20C
Vapor Density: 1.6
Density: .785g/mL at 77F(25C)
Evaporation Rate: rapid
Percent Volatiles: 100%
Formula(ethanol): C2H6O
Formula(water): H2O
Molecular Weight(ethanol): 46.07 g/mol
Molecular Weight(water): 18.02 g/mol

Section X: Stability and Reactivity

Stability: Stable under correct storage conditions
Conditions to avoid: Heat, sparks, flame. Extreme Temperatures and direct sunlight.
Incompatibility/Materials to avoid: Strong oxidizing agents; strong inorganic acids.
Hazardous Combustion/Decomposition Products: Carbon Monoxide and/or Carbon Dioxide
Hazardous Polymerization: Will not occur.

Section XI: Toxicology Information

Ethyl Alcohol 64-17-5

Summary: Ethanol is not toxic by OSHA standards. Ingesting ethanol with sedatives or tranquilizers will increase change of toxicity.

Symptoms of Exposure: Central Nervous System depression, narcosis, damage to liver and heart. Chemical and physical toxicological properties have not been fully tested

Carcinogenicity:

IARC, ACGIH, NTP, OSHA: Not classifiable as a human carcinogen

Irritation:

Eyes- exposure to eyes may result in pain, stinging, irritation and reflex lid closure. Vapors may cause stinging but no apparent adverse effect. Impaired vision may occur.
Skin-Repeated exposure may cause skin to dry and crack.

Other:

Contact

Description

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Ingestion	May cause nausea, vomiting, diarrhea and gastrointestinal irritation. May cause central nervous system depression: excitement followed by headache, dizziness, drowsiness, and nausea. High concentration may result in collapse, unconsciousness and possible death due to respiratory failure.
Inhalation	High concentrations of Inhalation may cause nausea, headache, dizziness, suffocation and coma. May cause respiratory tract irritation.
Chronic	Can cause reproductive effects. Prolonged exposure may cause liver, kidney and heart damage. Long term exposure can cause loss of appetite, weight loss, nervousness, memory loss, mental retardation.

Section XII: Ecological Information

Ethyl Alcohol 62-17-5

Ecotoxicity(aquatic and terrestrial): Acute fish toxicity

Toxicity to aquatic plants: Growth Inhibition

Toxicity to Microorganisms: Inhibits cells to multiply

Bioaccumulation is unlikely. Biodegradation is expected.

Section XIII: Disposal

Disposal of product and contaminated packaging: Burn in chemical incinerator equipped with afterburner and scrubber.

Use care as product is highly ignitable.

Contact a professional waste disposal service. Observe all federal, state, and local environmental regulations.

Handle with care.

Product highly flammable.

Section XIV: Transport Information

IMDG: UN-Number UN1170

Class 3

Packing Group II

EMS-No.: F-E, S-D

Proper shipping name: Ethanol Solutions

Not a Marine pollutant

IATA: UN1170 Class 3, Packing Group II

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Proper shipping name Ethanol Solutions

UN Number	UN1170
UN Proper Shipping Name	Ethanol Solutions
Transport Hazard Class	3
Packing Group	II

Section XV: Regulatory Information

Federal EPA/OSHA:

CERCLA: No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA(act of 1980)

SARA (302, 304, 311,312): Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (311/312 Acute Health Hazard, Chronic Health Hazard, Fire Hazard)

SARA(313): Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372.

(This material does not contain any chemical components with known CAS numbers that exceed the reporting limits.)

Toxic Substances Control Act(TSCA) Status: All components of this product are listed or are exempt from listing on the TSCA inventory.

State Right to Know:

Massachusetts- Ethanol CAS-No. 64-17-5 Revision date 2007-03-01

Pennsylvania- Ethanol CAS-No. 64-17-5 Revision date 2007-03-01

New Jersey- Ethanol CAS-No. 64-17-5 Revision date 2007-03-01

California- Warning. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Ethyl alcohol CAS 64-17-5 Revision Date: 2009-12-11

Section XVI: Other Information on Preparation and Revision of the SDS

The information contained herein is based on data considered to be accurate, However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.

Last Revision Date: 6/11/2020

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