

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Denatured Ethanol 200 Proof  
CAS number 64-17-5  
Synonyms Denatured Ethyl Alcohol, Reagent Alcohol

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial use, chemical reagent, laboratory chemical

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.  
Telephone 512-668-9918  
Fax 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC  
International 1-352-323-3500 INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2)  
Skin irritation (Category 2)  
Eye irritation (Category 2B)  
Specific target organ toxicity - single exposure (Category 3)  
Causes damage to organs - single exposure (Category 1)

#### 2.2 GHS Label elements, including precautionary statements

**Pictogram**



**Signal Word**

Danger

**Hazard statements**

- Highly flammable liquid and vapor
- Causes skin irritation
- Causes eye irritation
- May cause drowsiness or dizziness
- Causes damage to organs

**Precautionary Statements**

**Prevention** Avoid breathing mist/vapors/spray

Do not breathe mist/vapors/spray

Do not eat, drink or smoke when using this product

Ground/bond container and receiving equipment.

Keep away from heat/sparks/open flames/hot surfaces - no smoking.

Keep container tightly closed.

Take precautionary measures against the static discharge

Use only non-sparking tools.

Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling

Wear protective gloves/eye protection/face protection

**Response** Call a poison center/doctor if you feel unwell.

If exposed or concerned: Call a poison center/doctor.

If eye irritation persists: Get medical advice/attention

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower. Wash with plenty of water.

If skin irritation occurs: Get medical attention.

In case of fire: Use water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam to extinguish.

Take off contaminated clothing and wash it before reuse.

**Storage** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

No information available

**SECTION 3: Composition/information on ingredients**

**3.1 Components**

Chemical name	Common name and synonyms	CAS number	Concentration
Ethyl Alcohol	Ethanol	64-17-5	90-100%
Isopropyl alcohol	-	67-63-0	5-10%
Methanol	-	67-56-1	5-10%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

<b>If inhaled</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>In case of skin contact</b>	If irritation is experienced, flush with water. If irritation persists, get medical attention.
<b>In case of eye contact</b>	Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.
<b>If swallowed</b>	Do not induce vomiting. If the material is swallowed, get medical attention or advice.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Specific hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

### 5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 5.4 Further information

**Flash Point** 9.7 °C at 1013 hPa

**Autoignition Temperature** 455 °C (auto-ignition temperature (liquids and gases))

### Explosion limits

**Upper** 13.50%

**Lower** 2.50%

**Sensitivity to Mechanical Impact** none known

**Sensitivity to Static Discharge** none known

### NFPA

Health	Flammability	Instability	Physical hazards
-	-	-	-

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Remove persons to safety. For emergency responders- Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and materials for containment and cleaning up

Containing a spill - Covering of drains. Advice on how to clean up a spill - Wipe up with adsorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Keep away from heat, sparks and flame. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

#### Hygiene measures

Handle in accordance with proper industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready to use. Avoid all possible sources of ignition (spark or flame).

### Incompatibilities

No information available

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Ethyl Alcohol	TWA	1000 ppm
Isopropyl Alcohol	TWA	400 ppm

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Ethyl Alcohol	TWA	1000 ppm
Isopropyl Alcohol	TWA	400 ppm
Methanol	TWA   STEL	200 ppm      250 ppm

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side shields are recommended as minimum protection in industrial settings.

##### Skin protection

Wear appropriate clothing to minimize skin exposure.

##### Body Protection

Wear appropriate clothing to minimize skin exposure.

##### Respiratory protection

Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

##### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Clear liquid
Appearance	Colorless
Odor	Alcohol-like
Odor Threshold	No information available
pH	Not available
Melting Point/Range	-114.1°C
Boiling Point/Range	78.5°C
Evaporation Rate	Not available
Flammability (solid)	Class IB Flammable Liquid
Flammability or explosive limit	
Upper	3.30%
Lower	19.00%
Vapor Pressure	57.3 hPa at 20°C
Vapor Density	1.6
Density	Not available
Solubility	Solubility
Partition coefficient; n-octanol/water	Log Kow: -0.32
Autoignition Temp	363°C
Decomposition Temp	Not available
Viscosity	Not available
Molecular Formula	C <sub>2</sub> H <sub>5</sub> OH
Molecular Weight	46.07
VOC Content(%)	Not available
Oxidizing properties	Not oxidizing

### 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials." The mixture contains reactive substance(s). Risk of ignition.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

## 10.5 Incompatible materials

Oxidizers

## 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	14200 mg/kg	15800 mg/kg	64000 ppm/4h
Isopropyl Alcohol	4396 mg/kg	12800 mg/kg	72.6 mg/L/4h

#### Skin corrosion/irritation

Contact may cause dry skin.

#### Serious eye damage/eye irritation

No information available

#### Respiratory or skin sensitization

No information available

#### Germ cell mutagenicity

No information available

#### Carcinogenicity

No component is classified as a known carcinogen.

#### Specific target organ toxicity - single exposure

When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood, and reproductive system.

Methanol: Eyes, CNS, GI tract, and respiratory system.

Isopropyl alcohol: skin, eyes, CNS, and respiratory system.

#### Specific target organ toxicity - repeated exposure

See STOT statement above.

#### Reproductive toxicity

No information available

### Chronic effects

No information available

## 11.2 Additional Information

No information available

## SECTION 12: Ecological information

### 12.1 Toxicity

Product		Species	Test Results
Ethyl Alcohol	LC50	Oncorhynchus mykiss	12900 mg/L 96h
	LC50	Pimephales promelas	14.2 mg/L 96h
	EC50	Photobacterium phosphoreum	35470 mg/L 5 min
	EC50	Photobacterium phosphoreum	34634 mg/L 30 min
	EC50	Daphnia magna	9268 mg/L 48 h
	EC50	Daphnia magna	10800 mg/L 24 h
Methanol	EC50	Oncorhynchus mykiss	13200 mg/l 48h
	EC50	Lepomis macrochirus	1600 mg/l 48h
	EC50	Daphnia magna	10000 mg/l 48h
Isopropyl Alcohol	LC50	Pimephales promelas	9640 mg/L 96h
	LC50	Pimephales promelas	94900 mg/L 96h
	LC50	Pimephales promelas	61200 mg/L 96h
	EC50	Photobacterium phosphoreum	35390 mg/L 5 min
	EC50	Daphnia magna	13299 mg/L 48hr

### 12.2 Persistence and degradability

The relevant substances of the mixture are readily biodegradable.

### 12.3 Bio accumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations



### 13.1 Waste Disposal Methods

Solvent reclamation/regeneration. Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### DOT (US)

UN-no.	UN1987
Proper Shipping Name	Alcohols, n.o.s
Hazard class	3
Packing group	II

### IMDG

UN-no.	UN1987
Proper Shipping Name	Alcohols, n.o.s
Hazard class	3
Packing group	II

### IATA

UN-no.	UN1987
Proper Shipping Name	Alcohols, n.o.s
Hazard class	3
Packing group	II

## SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Active

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Listed

**SARA 304 Emergency release notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

See section 2 for full list of hazards and precautions.

**SARA 313 (TRI reporting)**

Listed

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed

**US. New Jersey Worker and Community Right-to-Know Act**

Listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Listed

**SECTION 16: Other information**

Issue date: 04/13/2023

Revision 1: 08/18/2023

Revision 2: 07/02/2024

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.