

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Ethanol 200 Proof (100%)

CAS number 64-17-5

Synonyms Ethyl alcohol

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

Identified uses Laboratory chemicals

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) Serious Eye Damage/Eye irritation (Category 2)

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Highly flammable liquid and vapor

Causes serious eye irritation

Precautionary statements

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

IF exposed or concerned: Get medical attention/advice

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

In case of fire: Use CO2, dry chemical, or foam for extinction

Store locked up

Store in a well-ventilated place. Keep container tightly closed Dispose of contents/container to an approved waste disposal plant

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

None.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	nemical name Common name and synonyms		Concentration	
Ethyl Alcohol	Ethanol	64-17-5	> 98%	

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

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If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat Symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical,

alcohol-resistant foam. Water mist may be used to

cool closed containers.

Unsuitable extinguishing mediaWater may be ineffective, Do not use a solid water

stream as it may scatter and spread fire.

5.2 Specific hazards arising from the substance or mixture

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point 12 °C / 53.6 °F

Autoignition Temperature 363 °C / 685.4 °F

Explosion limits

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Upper 19 vol% **Lower** 3.3 vol%

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available.
No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	1	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2 Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

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

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammable area. Keep away from heat, sparks, and flame.

Incompatibilities

Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides.

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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	1900 mg/m3	1000 ppm

US. ACGIH Threshold Limit Values

Component	Туре	Value
Ethyl Alcohol	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	
Ethyl Alcohol	IDLH	3300 ppm	
	TWA	1900 mg/m3	1000 ppm

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective gloves.

Body Protection

Wear appropriate clothing.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor Alcohol

Odor Threshold

PH

No information available.

7 @ 20°C 10 g/L aq. sol

Melting Point/Range

-114 °C / -173.2 °F

Roiling Point/Range

78 °C / 172.4 °F

Boiling Point/Range 78 °C / 172.4 °F
Evaporation Rate No information available.

Flammability (solid) Not applicable.

Flammability or explosive limit

Upper 19 vol % Lower 3.3 vol %

Vapor Pressure

Vapor Density

Density

No information available.

No information available.

0.785 g/cm3 @ 20°C

Solubility Miscible

Partition coefficient; n-octanol/water No information available.

Autoignition Temp 363 °C / 685.4 °F

Decomposition Temp

Viscosity

No information available.

No information available.

Molecular Formula C2H6O Molecular Weight 46.07

VOC Content(%) No information available.

Oxidizing properties None.

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Hygroscopic.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

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Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides.

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Ethyl Alcohol	10470 mg/kg	No information available	117-125 mg/L

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

Irritating to eyes.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

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Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ethyl Alcohol	64-17-5	Not listed	Known	A3	Not listed	A3

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available.

Chronic effects

No information available.

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11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results	
	EC50	Chlorella vulgaris	275 mg/L	72 h
	LC50	Pimephales promelas	14200 mg/L	96 h
Ethyl Alashal	EC50	Photobacterium phosphoreum	34634 mg/L	30 min
Ethyl Alcohol	EC50	Photobacterium phosphoreum	35470 mg/L	5 min
	EC50	Water flea	9268 mg/L	48 h
	EC50	Water flea	10800 mg/L	24 h

12.2 Persistence and degradability

Persistence is unlikely based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its volatility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-no UN1170 Proper Shipping Name Ethanol

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Hazard Class 3
Packing Group II

IMDG

UN-no UN1170
Proper Shipping Name Ethanol
Hazard Class 3
Packing Group II

IATA

UN-no UN1170
Proper Shipping Name Ethanol
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)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not listed.

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

Listed.

SARA 313 (TRI reporting)

Not 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)

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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

Not listed.

SECTION 16: Other information

Issue date: 09/16/2024

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.

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