



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. Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (houshold).

1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC

22111 Highway 71 West, Suite 601

Spicewood, Texas 78669

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) Carcinogenicity (Category 1A) Acute Toxicity (Oral) (Category 4)

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2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word: Danger

Hazard statement(s): Highly flammable liquid and vapor. Harmful if swallowed. May cause cancer.

Precautionary statement(s): Prevention - Do not handle until all safety precautions have been read and

understood. 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. Do not eat, drink or smoke when using this product. Wear protective gloves/eye protection/face protection.

Response - If swallowed: Call a poison center/doctor if you feel unwell. 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. If exposed: Call a poison center/doctor. In case of fire: Use appropriate media to extinguish.

Hazards not otherwise classified

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	CAS number	%
Ethyl alcohol	64-17-5	89.5 – 91.5
Isopropyl Alcohol 99%	67-63-0	4.5 – 5.5
Methanol	67-56-1	4.0 – 5.0
Water	7732-18-5	0.00 - 0.2

Composition comments All concentrations are in percent by weight unless otherwise indicated.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice: Do not leave affected person unattended. Remove victim out of the danger area.

Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery

position. Never give anything by mouth.

If breathing is irregular or stopped, immediately seek medical assistance and start

first aid actions. Provide fresh air.

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In case of skin contact: Wash with plenty of soap and water.

In case of eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate

copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

In case of ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Suitable (and unsuitable) extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the

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

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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.

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6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 10

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures ro prevent fire as well as aerosol and dust generation - Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are par-ticularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Hygiene measures

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equip-ment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in con-tainers that are normally used for food or drink. Keep away from food, drink and animal feeding stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other igni-tion sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Use local and general ventilation. Ground/bond container and receiving equipment. Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

SECTION 8. Exposure controls/personal protection

8.1 Occupational exposure limits

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
US	ethanol	64-17-5	TLV®			1,000					ACGIH® 2023
US	ethyl alcohol	64-17-5	REL	1,000 (10 h)	1,900 (10 h)						NIOSH REL

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	i										
US	ethyl alcohol (eth- anol)	64-17-5	PEL (CA)	1,000	1,900						Cal/ OSHA PEL
US	ethyl alcohol (eth- anol)	64-17-5	PEL	1,000	1,900						29 CFR 1910.100 0
US	methanol	67-56-1	TLV®	200		250				Н	ACGIH® 2023
US	methyl alcohol	67-56-1	REL	200 (10 h)	260 (10 h)	250	325				NIOSH REL
US	methyl alcohol	67-56-1	PEL	200	260						29 CFR 1910.100 0
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STE [ppm]	STE [mg <u>/</u> m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
	Mame of agent methyl alcohol (methanol)	_									Cal/ OSHA PEL
try	methyl alcohol	No	fier	[ppm]	[mg/m³]	[p p m]	[mg/m³]	[ppm]			Cal/ OSHA
US	methyl alcohol (methanol)	No 67-56-1	PEL (CA)	[ppm] 200	[mg/m³]	[ppm] 250	[mg/m³]	[ppm]			Cal/ OSHA PEL ACGIH®
US	methyl alcohol (methanol)	No 67-56-1 67-63-0	FEL (CA) TLV®	[ppm] 200 200	[mg/m³] 260	[ppm] 250 400	[mg/m³] 325	[ppm]			Cal/ OSHA PEL ACGIH® 2023 Cal/ OSHA

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SHULRG RI KRXUV WLPH ZHLJKWHG DYHUDJH XQOHVV RWKHUZLVH VSHFLI

Biologica	l limit values					
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	methanol	methanol		BEI®	15 mg/l	ACGIH® 2023
US	isopropanol	acetone		BEI®	40 mg/l	ACGIH® 2023

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Relevant DNELs of components of the mixture							
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time	
Isopropyl Alcohol 99%	67-63-0	DNEL	500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects	
Isopropyl Alcohol 99%	67-63-0	DNEL	1,000 mg/m ³	human, inhalatory	worker (industry)	acute - systemic ef- fects	
Isopropyl Alcohol 99%	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects	
Methanol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	chronic - systemic ef- fects	
Methanol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects	
Methanol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	chronic - local effects	

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Methanol	67-56-1	DNEL	130 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Methanol	67-56-1	DNEL	20 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic ef- fects
Methanol	67-56-1	DNEL	20 mg/kg bw/ day	human, dermal	worker (industry)	acute - systemic ef- fects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Methanol	67-56-1	PNEC	20.8 mg/l	aquatic organisms	freshwater	short-term (single in- stance)
Methanol	67-56-1	PNEC	2.08 mg/i	aquatic organisms	marine water	short-term (single instance)
Methanol	67-56-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)
Methanol	67-56-1	PNEC	77 mg/kg	aquatic organisms	freshwater sediment	short-term (single in- stance)
Methanol	67-56-1	PNEC	7.7 mg/kg	aquatic organisms	marine sediment	short-term (single in- stance)
Methanol	67-56-1	PNEC	100 mg/kg	terrestrial organ- isms	soil	short-term (single instance)

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8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Personal protective equipment

Eye/face protection

Wear eye/face protection. Use safety goggle with side protection. Wear face-shield.

Skin and body protection

Wear suitable gloves. Wash hands thoroughly after handling. Protective clothing against liquid chemicals. Footwear protecting against chemicals.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Control of environmental exposure

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid.

Appearance Clear liquid.

Odor Sweet. Alcohol odor.
Odor Thresh No data available.
pH Not determined.
Melting Point/Range Not determined.
Boiling Point/Range (64.7 °C) at 1013 hPa
Flash Point 9.7 °C at 1013 hPa
Evaporation Rate Not determined.

Flammability (solid, gas)

Flammability or explosive limit

Upper : 13.5 % v/v **Lower** : 2.5 % v/v

Vapor Pressure169.3 hPa at 25 °CVapor DensityNo data available.DensityNot determined.SolubilityNot determined.

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

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

Decomposition TempNo data available.ViscosityNot determined.

Molecular FormulaC2H5OHMolecular Weight46.07

VOC Content(%) No data available.

Oxidizing properties Not oxidizing.

9.2 Other safety information

None.

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-prrof 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 (CO2).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure - The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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Acute toxicity

Harmful if swallowed.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans									
Name of substance CAS No Classification Number									
Ethanol	Ethanol 64-17-5 1								
Isopropyl Alcohol 99%	67-63-0	3							

Legend

1 Carcinogenic to humans

Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Chronic effects

No data available.

11.2 Additional information

None.

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SECTION 12. Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and Degradability

The relevant substances of the mixture are readily biodegradable.

12.3 Bioaccumulative 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

UN-No UN1987
Proper Shipping Name Alcohols, n.o.s.
Hazard Class 3
Packing Group II

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TDG

UN-No UN1987

Proper Shipping Name Alcohols, n.o.s. (Ethyl alcohol; Propan-2-ol)

Hazard Class 3
Packing Group ||

<u>IATA</u>

UN-No UN1987

Proper Shipping Name Alcohols, n.o.s. (Ethyl alcohol; Propan-2-ol)

Hazard Class 3
Packing Group ||

IMDG/IMO

UN-No UN1987

Proper Shipping Name Alcohols, n.o.s. (Ethyl alcohol; Propan-2-ol)

Hazard Class 3
Packing Group ||

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's UN1

declaration

UN1987, Alcohols, n.o.s., 3, II

Reportable quantity (RQ) 113,122 lbs (51,357 kg) (Methanol)

Danger label(s) 3



Special provisions (SP) 172, IB2, T7, TP1, TP8, TP28

ERG No 127

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant Danger - label(s) 3



Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 3

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Special provisions (SP) A3, A180

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

SECTION 15: Regulatory information

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Sectio 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313

Toxics Release Inventory: Specific Toxic	c Chemical Listi	ngs	
Name of substance	CAS No	Remarks	Effective date
Methanol	67-56-1		1987-01-01
Isopropyl Alcohol 99%	67-63-0	only persons who manufacture by the strong acid process are subject, supplier notification not required	1987-01-01

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Methanol	67-56-1		3 4	5000 (2270)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

"4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List -

Hazardous Substance List (NJ-RTK

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Name of substance	CAS No	Remarks	Classifications
Ethanol	64-17-5		CA MU TE F3
Methanol	67-56-1		TE F3
Isopropyl Alcohol 99%	67-63-0		F3

Legend

CA Carcinogenic Flammable - F3 Third Degree

MU Mutagenic
TE Teratogenic

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethanol (ethyl alcohol)	64-17-5	in alcoholic beverages	developmental
methanol	67-56-1		developmental

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	0	no significant risk to health
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

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Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordin- ary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

Legend
AIIC
CICR
CSCL-ENCS
DSL
ECSI
IECSC
INSQ
ISHA-ENCS
KECI
NZIOC Australian Inventory of Industrial Chemicals
Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH registered substances
Taiwan Chemical Substance Inventory
Toxic Substance Control Act Australian Inventory of Industrial Chemicals

NZIoC PICCS

REACH Reg. TCSI TSCA

Toxic Substance Control Act

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SECTION 16: Other information

Issue Date 04/13/2023 Revision Date 08/18/2023

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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