

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name:	Specially Denatured Alcohol (SDA) 40B, 200 Proof
CAS number:	64-17-5, 75-65-0 and 7732-18-5
Synonyms:	SDA 40B Ethanol

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

Identified Uses: General purpose solvent.

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
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 liquid (Category 2) Serious eye damage/eye irritation (Category 2)

1.4

2.2 GHS Label elements, including precautionary statements

Pictogram:	
Signal Word:	Danger
Hazard statement(s):	Highly flammable liquid and vapor. Causes serious eye irritation.
Precautionary statement(s):	Prevention - 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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Response - 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 dry sand, dry chemical or alcohol-resistant foam for extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	CAS number	%
Ethyl alcohol	64-17-5	95.00-99.00
tert-Butanol	75-65-0	0.12
Water	7732-18-5	0.88-4.88

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice:	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Show this safety data sheet to the doctor in attendance.
If inhaled:	Move to fresh air. Call a physician if symptoms develop or persist.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
In case of skin contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
If swallowed:	Rinse mouth. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable (and unsuitable)
extinguishing mediaWater fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Specific hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

5.4 Further information

None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is completely soluble in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

6.4 Reference to other sections

For disposal see section 13.

7.1 Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Hygiene Measures

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8. Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Components Type PEL Ethyl alcohol (CAS 64-17-5) 1900 mg/m3 1000 ppm **US. ACGIH Threshold Limit Values** Value Components Туре Ethyl alcohol (CAS 64-17-5) STEL 1000 ppm **US. NIOSH: Pocket Guide to Chemical Hazards** Value Components Type Ethyl alcohol (CAS 64-17-5) TWA 1900 mg/m3

8.2 Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Personal protective equipment

Eye/face protection

Chemical goggles are recommended.

Skin and body protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Wear appropriate chemical resistant clothing. Wear appropriate thermal protective clothing, when necessary.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge.

Control of environmental exposure

Avoid discharge into drains, water courses or onto the ground.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Thresh pH Melting Point/Range (Ethyl Alcohol Boiling Point/Range (Ethyl Alcohol Flash Point (Ethyl Alcohol) Evaporation Rate Flammability (solid, gas) Flammability or explosive limit) 172.9 - 176 °F (78.3 - 80 °C) 57.2 - 69.8 °F (14.0 - 21.0 °C) Closed Cup Expected to be rapid. Not applicable.
•• •	thyl Alcohol) : 19.0%
Lower (E	thyl Alcohol) : 3.3%
Vapor Pressure (Ethyl Alcohol) Vapor Density (Ethyl Alochol) Density Solubility	44.6 mm Hg (100% Ethyl alcohol) (68 °F (20 °C)) 1.4 - 1.6 (air = 1) 0.796 - 0.881 g/ml (77 °F (25 °C)) Completely soluble.
Partition coefficient; n-octanol/wat Autoignition Temp (Ethyl Alcohol) Decomposition Temp Viscosity Molecular Formula Molecular Weight VOC Content(%) Oxidizing properties	er (Ethyl Alcohol) Not available. 685.4 °F (363 °C) (100% Ethyl alcohol) Not available. Not available. C2H5OH 46.07 Not oxidizing. Not oxidizing.

9.2 Other safety information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Material is stable under normal conditions.

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. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure

Inhalation: Prolonged inhalation may be harmful.
Skin contact: Prolonged skin contact may cause temporary irritation.
Eye contact: Causes serious eye irritation.
Ingestion: Expected to be a low ingestion hazard.

	> >	Acute toxicity
Test Results	Species	Components
		2 6/ %\$=)=&7
		<u>Acute</u>
		Inhalation
		Vapor
) = '& 9 \$1</td <td>,</td> <td>E/&</td>	,	E/&
		Oral
\$) 9<.9	,	LD50
	,	<u>Acute</u> Inhalation Vapor E/& Oral

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not a respiratory sensitizer. This product is not expected to cause skin sesitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

11.2 Additional information

None.

SECTION 12. Ecological information

12.1 Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Spec	ies	Test Results
2 6/ %\$=)=&7				
Aquatic				
9	2/	:	9	& 9)'</td
	2/&	:	9	')& 9)'</td
		3	9	5 9<
	C2/	3	9	&* 9<
:	E/&	:		' 9 '\$</td
	C2/	:		'& 9<
	2/&	:		& ' 9 \$*</td
		3		*&) 9 \$*</td
	C2/	:		5 % 9 </td
		3)5 9 5%</td
С	2/&	Е		\$\$(' 9< !)
	C2/	Е		'* 9)</td
Other				
3 = 9	E/&	3 =	9	&* 9 \$</td
Terrestial				
@	2/&	0		%((9<.9

12.2 Persistence and degradability

No data is available on the degradability of this product.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

The product is completely soluble in water.

12.5 Results of PBT and vBvB assessment

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

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. Disposal considerations

13.1 Waste Disposal Methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

UN1170

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UN number: Proper shipping name: Hazard Class: Packaging Group: Label:

ΙΑΤΑ

UN number: Proper shipping name: Hazard Class: Packaging Group: Label:

IMDG

UN number: Proper shipping name: Hazard Class: Packaging Group: Label: Ethyl alcohol solution 3 II 3

UN1170 Ethyl alcohol solution 3 II

UN1170 Ethyl alcohol solution 3 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) Exp	ort Notification (40 CFR 707, Subpt. D)	
Not regulated.		
	bstance List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency re	elease notification	
Not regulated. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1053)	
Not regulated.		
Toxic Substances Control Act (TSCA)	All components of the mixture on the TSCA 8(b) inventory are designa	ted "active".
Superfund Amendments and Rea	authorization Act of 1986 (SARA)	
SARA 302 Extremely hazard	lous substance	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard	Flammable (gases, aerosols, liquids, or solids)	
categories	Serious eye damage or eye irritation	
SARA 313 (TRI reporting) Not regulated.		
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 (SDWA)	Not regulated.	
FEMA Priority Substanc	es Respiratory Health and Safety in the Flavor Manufacturing Work	place
Ethyl alcohol (CAS 64		•
US state regulations		
US. Massachusetts RTK - Su	ubstance List	
Ethyl alcohol (CAS 64-17-		
, , , , , , , , , , , , , , , , , , ,	Community Right-to-Know Act	
Ethyl alcohol (CAS 64-17-		
	d Community Right-to-Know Law	
Ethyl alcohol (CAS 64-17-	-5)	
US. Rhode Island RTK		
Ethyl alcohol (CAS 64-17-	-5)	
California Proposition 65		
California Safe Drinking W	Vater and Toxic Enforcement Act of 1986 (Proposition 65): This material by chemicals currently listed as carcinogens or reproductive toxins. For vw.P65Warnings.ca.gov.	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no
Australia	Australian Inventory of Chemical Substances (AICS)	Ye
Canada	Domestic Substances List (DSL)	Ye
Canada	Non-Domestic Substances List (NDSL)	Ν
China	Inventory of Existing Chemical Substances in China (IECSC)	Ye

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

Issue Date	12/04/2018
Revision Date	09/28/2023

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.