

# 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

CAS number 64-17-5, 75-65-0, 3834-33-6

Synonyms SDA

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 2A)
Category 2 Eye irritation (Category 2A)

### 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

#### **Precaution statements**

Keep away from heat, open flame, sparks. -No smoking.

Keep container tightly closed.

Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, lighting, ventilating equipment.

Use only non-sparking tools.

Wash hands, forearms, and exposed areas thoroughly after handling. Wear eye protection, protective gloves, protective clothing.

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 In case of fire: Use appropriate media to extinguish. Store in a well-ventilated place. Keep cool.

# 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
ſ	Ethanol	ethanol; alcohol; ETOH; methyl carbinol; ethyl hydrate; grain alcohol	64-17-5	90%-100%

### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If inhaled If symptoms are experienced, remove source of contamination or move to fresh

air. If breathing is difficult, get medical attention.

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In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If

irritation is experienced, flush with water. Get medical attention if irritation

develops and persists, get medical attention.

In case of eye contact Immediately flush eyes with water for at least 15 minutes while holding. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical attention

if symptoms persist.

If swallowed Rinse mouth. Do NOT induce vomiting. If the material is swallowed, get medical

advice or attention.

### 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 symptomaticaly. 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 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 fire.

**Unsuitable extinguishing media**Do not use water jet 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

Flash Point No information available

Autoignition Temperature No information available

**Explosion limits** 

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UpperNo information availableLowerNo information available

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

NFPA

Health	Health Flammability		Physical hazards
-	-	-	-

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. -No smoking! Avoid all eye skin contact and do not breathe vapor and mist. Flammable liquid! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.

### 6.2 Environmental precautions

Prevent discharge to open bodies of water, municipal sewers, and watercourses.

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

Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

### 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, disspiate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Handle empty containers with care because residual vapors are flammable.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

# 7.2 Conditions for safe storage, including any incompatibilities

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### Storage conditions

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for 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
Ethanol	TWA	1000 ppm

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Ethanol	STEL	1000 ppm
tert-Butyl alcohol	STEL	100 ppm

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value
Ethanol	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 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.

### **Body Protection**

Wear appropriate clothing to minimize skin exposure.

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### **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 Clear liquid Appearance Colorless

Odor Ethanolic smell, bitter taste

Odor Threshold Not available pH Not available

Melting Point/Range -143.1 °C (-227.18 °F)

Boiling Point/Range Not available

Evaporation Rate Expected to be rapid.

Flammability (solid) Not available

Flammability or explosive limit

Upper 19.00% Lower 3.30%

Vapor Pressure 57.3 hPa at 20°C Vapor Density 0.7974 g/cm3
Density 0.78-0.8
Solubility Soluble

Partition coefficient; n-octanol/water -0.32(Ethanol)

Autoignition Temp 363°C

Decomposition Temp
Viscosity
Not available
Not available
Not available
C2H5OH
Molecular Weight
46.07

VOC Content(%) Not oxidizing
Oxidizing properties Not oxidizing

# 9.2 Other safety information

None

### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available

# 10.2 Chemical stability

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Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

#### 10.4 Conditions to avoid

Heat, flames and sparks. Extreme temperature and direct sunlight.

### 10.5 Incompatible materials

Alkali metals, oxidizing agents, peroxides.

### 10.6 Hazardous decomposition products

No data available

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### **Product Information, Component Information**

### **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	2743 mg/kg	2000 mg/kg	Not available
tert-Butyl alcohol	5800 mg/kg	7426 mg/kg	50,100 mg/m3 - 8h
Denatonium Benzoate	584 mg/kg	>2000 mg/kg	508 mg/kg

#### Skin corrosion/irritation

May cause irritation, cracking, flaking, and defatting of skin on prolonged contact.

### Serious eye damage/eye irritation

Liquid and vapor may cause irritation. Splashes may cause temporary pain and blurred vision.

### Respiratory or skin sensitization

May be harmful if absorbed through skin. Causes skin irritation.

### Germ cell mutagenicity

No information available

### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ethanol	64-17-6	Not listed				
tert-Butyl alcohol	75-65-0	Not listed				

### Specific target organ toxicity - single exposure

Thyroid, thymus, skin, eyes, respiratory system.

### Specific target organ toxicity - repeated exposure

Nervous system, liver, blood, reproductive system.

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# Reproductive toxicity

alcohol is a developmental toxin when consumed during pregnancy.

### **Chronic effects**

No information available

### 11.2 Additional Information

No information available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results	
	LC50	Onorchynchus mykiss	12900 mg/L	96h
	LC50	Pimephales promelas	14.2 mg/L	96h
Ethanol	EC50	Photobacterium phosphoreum	35470 mg/L	5 min
Ethanol	EC50	Photobacterium phosphoreum	34634 mg/L	30 min
	EC50	Daphnia magna	9268 mg/L	48h
	EC50	Daphnia magna	10800 mg/L	24h
Tort Putul Alcohol	LC50	Pimephales promelas	6140 mg/L	96h
Tert-Butyl Alcohol	EC50	Daphnia magna	933 mg/L	48h

# 12.2 Persistence and degradability

No information available

### 12.3 Bio accumulative potential

No information available

# 12.4 Mobility in soil

No information available

### 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

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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. UN1987 Proper shipping name Alcohols

Hazard class 3
Packing group II

Label Flammable

# **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)

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 listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Fire. Acute Health Hazard. Chronic Health Hazard.

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

Not regulated

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

Ethyl alcohol: Low priority.

**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: 12/04/2018 Revision 1: 09/28/2023 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.

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