

# **SAFETY DATA SHEET**

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

## 1.1 Product identifiers

Product name SDA 40B Ethanol 190 Proof

CAS number See Section 3

Synonyms SDA 40B, 190; Denatured Ethanol; Ethanol 190 Proof Specially

Denatured Alcohol SDA 40B with tert-Butyl Alcohol & Denatonium

Benzoate

## 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

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
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.

Precautionary statements

Prevention: 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 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 attention.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

Fire: In case of fire, use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container to an approved waste disposal plant.

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

None identified.

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

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ethanol	Ethyl alcohol; EtOH	64-17-5	>=95%
Water	Aqua; H2O	7732-18-5	<5%
t-Butanol	tert-Butyl alcohol; TBA	75-65-0	<= 0.125%
Denatonium benzoate	lidocaine benzyl benzoate	3734-33-6	<= 0.125%

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

## 4.1 Description of first-aid measures

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#### General advice

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

fresh air. If breathing is difficult, get medical attention.

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.

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. Serve 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 extinguishing media Water fog. Alcohol-resistant foam. Dry chemical

powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**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.

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#### 5.4 Further information

**Flash Point** 57.2 - 69.8 °F (14.0 - 21.0 °C) Closed Cup

**Autoignition Temperature** 685.4 °F (363 °C) - Ethyl Alcohol

**Explosion limits** 

**Upper** 19% **Lower** 3.30%

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 6.2 Environmental precautions

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

### 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. Place in container for disposal according to local / national regulations.

#### 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 practice.

#### 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

Alkali metals, oxidizing agents, peroxides.

## **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	Туре	Value	
Ethanol	PEL-TWA	1000 ppm 1900 mg/m3	
t-Butanol	STEL	150 ppm	

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

Component	Type	Value	
Ethanol	STEL	1000 ppm	
t-Butanol	TWA	100 ppm	300 mg/m3

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

Component	Type	Value	
Ethanol	IDLH	3300 ppm	
Etilatioi	TWA	1000 ppm	1900 mg/m3

#### **Biological occupational exposure limits**

No information available.

## 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

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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.

## 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 Liquid
Appearance Clear

Odor Ethanolic smell

Odor Threshold No information available pH No information available

Melting Point/Range -173.2 - -50.8 °F (-114 - -46 °C) Boiling Point/Range 172.9 - 176 °F (78.3 - 80 °C)

Evaporation Rate Expected to be rapid

Flammability (solid) Not applicable

Flammability or explosive limit

Upper 19% Lower 3.30%

Vapor Pressure 44.6 mm Hg (100% Ethyl alcohol) (68 °F (20 °C))

Vapor Density 1.4 - 1.6 (air = 1)

Density 0.796 - 0.881 g/ml (77 °F (25 °C))

Solubility Soluble

Partition coefficient; No data available

n-octanol/water

Autoignition Temp 363°C

Decomposition Temp

Viscosity

No information available

No information available

Molecular Formula C2H5OH
Molecular Weight 46.07 g/mol

VOC Content(%) No information available

Oxidizing properties Not oxidizing

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## 9.2 Other safety information

No information available.

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

## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

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. Incompatible materials.

## 10.5 Incompatible materials

Alkali metals, oxidizing agents, peroxides.

## 10.6 Hazardous decomposition products

Carbon oxides.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	10470 mg/kg (Rat)	-	117-125 mg/L/4h (Rat)
t-Butanol	2,743 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Denatonium benzoate	584 mg/kg (Rat)	-	-

#### 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

Not a respiratory sensitizer.

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## Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ethanol	64-17-6	Not listed				
t-Butanol	75-65-0	Not listed				
Denatonium benzoate	3834-33-6	Not listed				

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

None known.

## 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
Ethanol	EC10 EC50	Freshwater Algae Freshwater Algae	11.5 mg/L, 72 hours 275 mg/L, 72 hours
	LC50 NOEC	Freshwater Fish Freshwater Fish	11200 mg/L, 24 hours 250 mg/L
	EC50	Freshwater Invertebrate Marine Invertebrate	5012 mg/L, 48 hours 857 mg/L, 48 hours
	NOEC	Freshwater Invertebrate Marine Invertebrate	9.6 mg/L, 10 days 79 mg/L, 96 hours
t-Butanol	LC50	Freshwater Fish	6140 mg/L, 96 hours
	EC50	Freshwater Algae	1000 mg/L, 96 hours
Denatonium benzoate	LC50	Freshwater Fish	> 1000 mg/L, 96 hours

## 12.2 Persistence and degradability

Readily biodegradable.

# 12.3 Bio accumulative potential

No information available.

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### 12.4 Mobility in soil

The product is water soluble and may spread in water systems.

#### 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 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)

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Not applicable.

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

Not applicable.

## 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 more information.

#### SARA 313 (TRI reporting)

Listed, tert-Butyl alcohol (CAS #75-65-0).

## 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**

Listed, Ethanol (CAS #64-17-5)...

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Listed, Ethanol (CAS #64-17-5). Listed, tert-Butyl alcohol (CAS #75-65-0).

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

Listed, Ethanol (CAS #64-17-5). Listed, tert-Butyl alcohol (CAS #75-65-0).

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

Listed, Ethanol (CAS #64-17-5). Listed, tert-Butyl alcohol (CAS #75-65-0).

#### **California Proposition 65**

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## **SECTION 16: Other information**

Issue date: 12/04/2018 Revision 1: 09/28/2023 Revision 2: 11/18/2024

## **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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