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) 3C, 200 Proof
CAS number:	64-17-5 and 64-63-0
Synonyms:	SDA 3C Ethanol

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 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 liquid (Category 2)
Eye irritant (Category 2A)

2.2 GHS Label elements, including precautionary statements

Pictogram:

Signal Word: **Danger**

Hazard statement(s): Highly flammable liquid and vapor. Causes eye irritation. 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. 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.

Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

3.1 Components

#	Component	CAS Reg #	Synonyms	Amount (w/w %)
1	Ethyl Alcohol	64-17-5	ethanol; alcohol; ETOH; methyl carbinol; ethyl hydrate; grain alcohol	95%
2	Isopropyl Alcohol	64-63-0	IPA	5%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

If inhaled: If symptoms are experience, remove source of contamination or move to fresh air. If breathing is difficult, 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 If symptoms persist, 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, get medical attention.

If swallowed: Rinse mouth. Do NOT induce vomiting. If the material is swallowed, get medical attention or advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available..

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable (and unsuitable) extinguishing media

Alcohol resistant foam, carbon dioxide, dry chemical, water spray or fog.

5.2 Specific hazards arising from the substance or mixture

Fire Hazard: Highly flammable liquid and vapor. Explosion Hazard: May form flammable/explosive vapor-air mixture. Reactivity: Reacts violently with strong oxidizers. Increased risk of fire/explosion.

5.3 Special protective equipment and precautions for firefighters

Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self- contained breathing apparatus. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering the environment.

5.4 Further information

None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. 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. Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from heat, sparks and flame. Use only with adequate ventilation. To avoid fire or explosion, dissipate 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

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).

SECTION 8. Exposure controls/personal protection

8.1 Occupational exposure limits

No.	Component	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Ethyl Alcohol (CAS: 64-17-5)	95	1000 ppm	Not Avail	Not Avail	1000 ppm
2	Isopropyl Alcohol (CAS: 64-63-0)	5	400 ppm	Not Avail	200 ppm	400 ppm

8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation.

Personal protective equipment

Eye/face protection

Safety glasses with side shields are recommended as minimum protection in industrial settings.

Skin and body protection

Wear chemically protective gloves. Avoid skin contact. If product comes in contact with clothing, immediately remove soaked clothing and shower. Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, use appropriate respirator protection. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Control of environmental exposure

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid.
Appearance	Clear
Odor	Alcohol
Odor Thresh	Not available.
pH	Not available.
Melting Point/Range (Ethyl Alcohol)	-114.1 °C (-173.38 °F)
Boiling Point/Range (Ethyl Alcohol)	78.5 °C (173.3 °F)
Flash Point (Ethyl Alcohol)	13 °C (55.4 °F)
Evaporation Rate	Not available.
Flammability (solid, gas)	Not available
Flammability or explosive limit	
Upper (Ethyl Alcohol)	: 19.0%
Lower (Ethyl Alcohol)	: 3.3%
Vapor Pressure (Ethyl Alcohol)	57.3 hPa at 20 °C
Vapor Density (Ethyl Alochol)	1.6
Density	Not available
Solubility	Soluble in water
Partition coefficient; n-octanol/water (Ethyl Alcohol)	-0.32
Autoignition Temp (Ethyl Alcohol)	363 °C
Decomposition Temp	Not available.
Viscosity	Not available.
Molecular Formula	C2H5OH
Molecular Weight	46.07
VOC Content(%)	Not available.
Oxidizing properties	Not available.

9.2 Other safety information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reacts violently with strong oxidizers: (increased) risk of fire/explosion.

10.2 Chemical stability

This material is considered stable at ambient temperatures 70 °F (21 °C).

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Flames, sparks, electrostatic discharge, heat and other ignition sources.

10.5 Incompatible materials

This product reacts with strong acids, strong bases, and oxidizing agents.

10.6 Hazardous decomposition products

Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

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.

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 cause irritation to the mucous membranes of the upper respiratory tract. Exposure over 1000 ppm may cause headache, drowsiness, lassitude, loss of appetite, inability to concentrate, throat irritation

ACUTE EFFECTS:
Analysis LD50
Ethyl Alcohol (64-17-5)
Oral LD50 Rat: 7060 mg/kg

CHRONIC EFFECTS:
Ethyl Alcohol (64-17-5)

Carcinogenicity: Not classifiable for human or animal by ACGIH.

Mutagenicity: Not available.

Teratogenic: Not available.

ACUTE EFFECTS:
Analysis LD50
Isopropyl Alcohol (67-63-0) Oral LD50 Rat: 5045 mg/kg

CHRONIC EFFECTS:
Isopropyl Alcohol (67-63-0)

Carcinogenicity: Not classifiable for human or animal by ACGIH.

Mutagenicity: Not available.

Teratogenic: Not available.

Reproductive toxicity

No information available.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

No information available.

Chronic effects

Prolonged skin contact causes drying and cracking of skin.

11.2 Additional information

None.

SECTION 12. Ecological information

12.1 Toxicity

Ethyl alcohol (64-17-5) EC50
Daphnia 1 9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2 > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (algae) 1000 mg/l

Isopropyl alcohol (67-63-0)
LC50 Fish 1 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus) LC 50 Fish 2 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2 Persistence and degradability

No data is available on the degradability of this product.

12.3 Bio accumulative potential

No information avaialable.

12.4 Mobility in soil

No information available.

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 information available.

SECTION 13. Disposal considerations

13.1 Waste Disposal Methods

Dispose of contents/containers in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT

UN number:	UN1987
Proper shipping name:	Alcohols, n.o.s.
Hazard Class:	3
Packaging Group:	II
Label:	Flammable Liquid

IATA

UN number:	UN1987
Proper shipping name:	Alcohols, n.o.s.
Hazard Class:	3
Packaging Group:	II
Label:	Flammable Liquid

IMDG

UN number:	UN1987
Proper shipping name:	Alcohols, n.o.s.
Hazard Class:	3
Packaging Group:	II
Label:	Flammable Liquid

TDG

UN number:	UN1987
Proper shipping name:	Alcohols, n.o.s.
Hazard Class:	3
Packaging Group:	II
Label:	Flammable Liquid

SECTION 15: Regulatory information

TSCA Inventory: This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304: No components were identified.

SARA 313: No components were identified.

CERCLA: No components were identified.

SARA 311/312 Hazard: This material would be classified under the following hazard categories: fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard.

California Proposition 65: This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Ethanol

SECTION 16: Other information

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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.