



## Safety Data Sheet

# Organic Sugar Cane Alcohol 190°

### SECTION 1. IDENTIFICATION

**Product Identifier** Organic Sugar Cane Alcohol 190°  
**Other Means of Identification** Ethyl alcohol  
**Recommended Use** Laboratory chemicals.  
**Restrictions on Use** None known.

**Supplier** 22111 Highway 71 West, Suite 601,  
Spicewood, Texas 78669  
512-668-9918

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquid - Category 2; Serious eye damage/eye irritation - Category 2A; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

Chemical Name	CAS No.	%	Other Identifiers
Ethanol	64-17-5	94.98 - 95.02	
Water	7732-18-5	4.98 - 5.02	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

Product Identifier: Organic Sugar Cane Alcohol 190°

Date of Preparation: May 15, 2015

**Inhalation**

Remove to well ventilated area get medical advice/attention if you feel unwell or are concerned. Take precautions to prevent a fire (e.g. remove sources of ignition).

**Skin Contact**

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse with lukewarm, gently flowing water for 5 minutes.

**Eye Contact**

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

**Ingestion**

Get medical advice/attention if you feel unwell or are concerned.

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing Media****Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

**Unsuitable Extinguishing Media**

Water is not effective for extinguishing a fire. It may not cool product below its flash point.

**Specific Hazards Arising from the Chemical**

Can ignite if strongly heated. Can be ignited by static discharge.

**Special Protective Equipment and Precautions for Fire-fighters**

Use extreme caution.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment, and Emergency Procedures**

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Remove or isolate incompatible materials as well as other hazardous materials.

**Environmental Precautions**

Product (diluted as directed).

**Methods and Materials for Containment and Cleaning Up**

Stop or reduce leak if safe to do so. Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Cover the spill surface with the appropriate type of foam to reduce the release of vapor. Knock down vapor with fog or fine water spray.

**SECTION 7. HANDLING AND STORAGE****Precautions for Safe Handling**

Do not get in eyes, on skin or on clothing. Wear personal protective equipment to avoid direct contact with this chemical only use where there is adequate ventilation. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs.

**Conditions for Safe Storage**

Store in an area that is: cool, well-ventilated. Store in a closed container. Out of direct sunlight and away from heat and ignition sources. Comply with all applicable health and safety regulations, fire and building codes.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Product Identifier: Organic Sugar Cane Alcohol 190°

Page 02 of 06

Date of Preparation: May 15, 2015

## Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Ethanol		1000 ppm C A3	1000 ppm C			

Ethanol:

Available human studies and evidence suggest that the substance is not likely to cause cancer in humans except under unusual or unlikely routes or levels of exposure. Worker exposure to an A3 carcinogen should be controlled to levels as low as reasonably achievable below the TLV.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear liquid.
<b>Odor</b>	Alcoholic
<b>Odor Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	-87 °C (-125 °F) (freezing)
<b>Initial Boiling Point/Range</b>	80 °C (176 °F)
<b>Flash Point</b>	18 °C (64 °F) (open cup)
<b>Evaporation Rate</b>	1.7 (n-butyl acetate = 1)
<b>Flammability (solid, gas)</b>	Not applicable (liquid).
<b>Vapor Pressure</b>	44.6 mm Hg (5.9 kPa) at 20 °C; High.
<b>Vapor Density (air = 1)</b>	1.6
<b>Relative Density (water = 1)</b>	> 0.825 at 25 °C
<b>Solubility</b>	Soluble in all proportions in water
<b>Auto-ignition Temperature</b>	363 °C
<b>Decomposition Temperature</b>	Not available
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	C <sub>2</sub> H <sub>6</sub> O
<b>Molecular Weight</b>	46.07
<b>Vapor Pressure at 50 deg C</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Hygroscopic.

### Possibility of Hazardous Reactions

Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and open sources of ignition.

### Incompatible Materials

Oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid), acid anhydrides (e.g. acetic anhydride). Acid chlorides.

### Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

Product Identifier: Organic Sugar Cane Alcohol 190°

Page 03 of 06

Date of Preparation: May 15, 2015

## SECTION 11. TOXICOLOGICAL INFORMATION

Ethanol has produced central nervous system (CNS) depression following ingestion and inhalation exposure to high concentrations in studies using rats, mice and guinea pigs. Observations have included drowsiness, incoordination, respiratory depression, unconsciousness, and death.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethanol	> 32380 ppm (male rat) (4-hour exposure)	3450 mg/kg (mouse)	> 15800 mg/kg (rabbit)

#### Inhalation:

The concentration of ethanol that reduced the respiratory rate of male mice by 50% (RD50) was 27300 ppm for a 10-minute exposure.(47) The RD50 is a measure of sensory irritation (nose, throat and respiratory irritation)

#### Ingestion:

Numerous studies have shown that ethanol causes dose-related depression of the central nervous system (CNS). Drowsiness, incoordination, loss of reflexes, unconsciousness, respiratory failure and death have been observed following exposure.(2,21,32)

#### Skin

Ethanol is not a skin sensitizer. Ethanol had no effect in the mouse ear sensitization assay (6) and failed to produce sensitization in five different tests using guinea pigs.

### Skin Corrosion/Irritation

Ethanol is a very mild irritant.

Application of 0.5 ml ethanol to intact skin for 4 hours caused very mild irritation in rabbits

### Serious Eye Damage/Irritation

Ethanol is a moderate to severe eye irritant.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

No harmful effects were observed in rats, guinea pigs, rabbits, monkeys and dogs exposed continuously by inhalation for 90 days to 46 ppm ethanol

#### Skin Absorption

Skin Sensitization: Ethanol is not a skin sensitizer. Ethanol had no effect in the mouse ear sensitization assay and failed to produce sensitization in five different tests using guinea pigs .

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Long-term studies show liver damage following exposure to high oral doses

### Respiratory and/or Skin Sensitization

Ethanol is not a skin sensitizer. Ethanol had no effect in the mouse ear sensitization assay (6) and failed to produce sensitization in five different tests using guinea pigs.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Ethanol	Group 1	A3		

The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity of ethanol in experimental animals.(96)

### Reproductive Toxicity

#### Development of Offspring

Reproductive Toxicity: No confirmed effects on fertility or reproductive capability have been observed. No effects on fertility and only minor reproductive effects were observed (reduced sperm motility and increased time between litters) No conclusions can be drawn from these studies due to the small number of animals used and the fact that only a single dosing group was used.

### Germ Cell Mutagenicity

Product Identifier: Organic Sugar Cane Alcohol 190°

Date of Preparation: May 15, 2015

Statistically significant dominant lethal mutations were observed when male mice.

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Ethanol	8 mg/L (Daphnia magna (water flea); 48-hour; fresh water; flow-through)	9310 mg/L (Pseudokirchneriella subcapitata (algae); 96-hour; fresh water; static)		

#### Persistence and Degradability

Persistence is unlikely based on information available. Soluble in water.

#### Bioaccumulative Potential

No information was located.

#### Mobility in Soil

Will Likely be mobile in the environment due to its water solubility

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Review federal, provincial and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions. Disposal by controlled incineration or secure landfill may be acceptable.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	1170	Ethanol (Ethanol)	3	II
Canadian TDG	1170	Ethanol (Ethanol)	3	II
IATA (Air)	1170	Ethanol (Ethanol)	3	II
IMO (Marine)	1170	Etahnol (Ethanol)	3	II

**Special Precautions for User** Not applicable

#### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### CEPA - National Pollutant Release Inventory (NPRI)

Ethanol:

#### USA

##### Additional USA Regulatory Lists

Ethanol:

Product Identifier: Organic Sugar Cane Alcohol 190°

Page 05 of 06

Date of Preparation: May 15, 2015

**Custom Regulatory 1**

Ethanol:

**Custom Regulatory 2**

Ethanol:

**Custom Regulatory 3**

Ethanol:

**SECTION 16. OTHER INFORMATION**

<b>NFPA Rating</b>	<b>Health - 2</b>	<b>Flammability - 3</b>	<b>Instability - 0</b>
	<b>Based on</b> Ethanol		
<b>SDS Prepared By</b>	Lab Alley LLC		
<b>Phone No.</b>	512-668-9918		
<b>References</b>	CHEMINFO database. Canadian Center for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Center for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Center for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Center for Occupational Health and Safety (CCOHS).		
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