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Revision: 02/01/2023

Supersedes Revision: 12/27/2016

## 1. Product and Company Identification

Product Code: ETHSOLU

Product Name: Ethanol Solution 90-100%

Company Name: Alpha-Tec Systems, Inc. Phone Number:

1311 SE Cardinal Ct Suite 170 1 (360)260-2779

Vancouver, WA 98683

Web site address: Alphatecsystems.com

Email address: Regulatory@Alphatecsystems.com

**Emergency Contact:** INFOTRAC

International 00-1- (352)323-3500

Information: North America 1 (800)535-5053

Intended Use: For Laboratory Use Only

**Product List** Ethanol Solution, Product Code: 0003303, 0004404, 0004210, 0003356, 0004213,

0003125, 0004627, 0004627S.

#### 2. Hazards Identification

Flammable Liquids, Category 2

Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4

Specific Target Organ Toxicity (single exposure), Category 1







GHS Signal Word: Danger

GHS Hazard Phrases: H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed. H332 - Harmful if inhaled.

H370 - Causes damage to organs

GHS Precautionary Phrases: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P308+311 - If exposed of concerned: Call a POISON CENTER/Doctor/... P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P370+378 - In case of fire, use CO2 carbon dioxide or alcohol resistant foam to

extinguish.

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GHS Storage and Disposal P403+235 - Store in cool/well-ventilated place.

Phrases: P405 - Store locked up.

P501 - Dispose of contents/container to safe area according to state and local guidlines.

Causes respiratory tract irritation. May be harmful if inhaled. Inhalation:

Causes skin irritation. May be harmful if absorbed through the skin. Skin Contact:

**Eve Contact:** Causes eye irritation.

Harmful if swallowed. May cause irritation of the digestive tract. Ingestion:

### 3. Composition/Information on Ingredients

CAS# **Hazardous Components (Chemical Name)** Concentration 64-17-5 Ethyl alcohol {Ethanol} 76.5 -95.0 % Methanol {Methyl alcohol; Carbinol; Wood 1.8 -6.0 % 67-56-1 alcohol} 67-63-0 Isopropyl alcohol {sec-Propyl alcohol; IPA; 1.8 -6.0 % 2-Propanol}

#### 4. First Aid Measures

**Emergency and First Aid** 

Procedures:

In Case of Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately.

> If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Flush skin with plenty of water for at least 15 minutes while removing contaminated In Case of Skin Contact:

clothing and shoes.

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and In Case of Eye Contact:

lower eyelids. Get medical aid immediately.

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of In Case of Ingestion:

milk or water.

Note to Physician: Treat symptomatically and supportively.

## 5. Fire Fighting Measures

11.70 C Method Used: Estimate Flash Pt:

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** > 350.00 C

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

As in any fire, wear a self-contained breathing apparatus in pressure-demand, Fire Fighting Instructions:

MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and

Hazards:

No data available.

**Hazardous Combustion** 

No data available.

**Products:** 

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**GHS** format

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#### 6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

### 7. Handling and Storage

Precautions To Be Taken in

Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid

contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Precautions To Be Taken in

Store in a cool, dry place. Store in a tightly closed container.

Storing:

8. Exposure Controls/Personal Protection						
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits		
64-17-5	Ethyl alcohol {Ethanol}	PEL: 1000 ppm	TLV: 1000 ppm	No data.		
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.		
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA: 2-Propanol}	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.		

Respiratory Equipment

(Specify Type):

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use.

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls

(Ventilation etc.):

Facilities storing or utilizing this material should be equipped with an eyewash facility and

a safety shower. Use adequate ventilation to keep airborne concentrations low.

# 9. Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: Colorless/Clear.

Ethanol odor.

pH: No data.

**Melting Point:** -114.10 C - -88.00 C **Boiling Point:** 64.70 C - 82.00 C

Flash Pt: 11.70 C Method Used: Estimate

**Evaporation Rate:** No data.

Flammability (solid, gas): No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or

mm Hg):

No data.

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = No data.

1):

**Density:** ~ 0.7910 G/CM3

Solubility in Water: No data.

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Saturated Vapor

No data.

Concentration:

Octanol/Water Partition

No data.

Coefficient:

Autoignition Pt: > 350.00 C

Decomposition No data.

Temperature:

Viscosity:

No data.

Information with regard to primary physical hazard:

## 10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

**Conditions To Avoid -** Incompatible materials, dust generation.

Instability:

Incompatibility - Materials To Strong oxidizing agents.

Avoid:

Hazardous Decomposition or Carbon monoxide.

**Byproducts:** 

Possibility of Hazardous

Reactions:

Will occur [ ] Will not occur [ X ]

**Conditions To Avoid -** No data available.

**Hazardous Reactions:** 

### 11. Toxicological Information

**Toxicological Information:** Epidemiology: No information found.

Teratogenicity: No information available. Reproductive Effects: Mutagenicity:

Neurotoxicity: Other Studies:

Carcinogenicity/Other

Information:

CAS# 1521-38-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

# 12. Ecological Information

General Ecological

Environmental: No information available. Physical: No information available.

Information: Physical: No information availabl Other: Do not empty into drains.

# 13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified

as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

## 14. Transport Information

GHS Classification: Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor

Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed

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Specific Target Organ Toxicity (single exposure), Category 1 - Danger! Causes damage

**Packing Group:** 

to organs {<target organs>}

LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Alcohols, n.o.s. (Ethanol)

**DOT Hazard Class:** 3 FLAMMABLE LIQUID

UN/NA Number: UN1987 Packing Group: II

FLªMM®BLE LIQUID

LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Alcohols, n.o.s. (Ethanol)

UN Number: UN1987 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID TDG Classification:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Alcohols, n.o.s. (Ethanol)

UN Number: UN1987

Hazard Class: 3 - FLAMMABLE LIQUID

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Alcohols, n.o.s. (Ethanol)

UN Number: UN1987 Packing Group: II

**Hazard Class:** 3 - FLAMMABLE LIQUID

## 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<b>CAS #</b> 64-17-5	Hazardous Components (Chemical Name)  Ethyl alcohol {Ethanol}	<b>S. 302 (EHS)</b> No	<b>S. 304 RQ</b> No	<b>S. 313 (TRI)</b> No	
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	No	Yes NA	Yes	
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	No	No	Yes	
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists			
64-17-5	Ethyl alcohol {Ethanol}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - 1			
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	CA PROP.65: Yes: RDTox.; MA Oil/HazMat: Yes; NJ EHS: Yes - 1222; PA HSL: Yes - E			
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA;	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - 1076; PA HSL: Yes - E			



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16. Other Information

**Revision Date:** 02/01/2023 **Previous revision:** 12/27/2016

Preparer Name: Tim Meehan

Additional Information About No data available.

This Product:

**Document & Change Control** SDS0141.D.

Number

Company Policy or Disclaimer

**Disclaimer:** The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.