



## MATERIAL SAFETY DATA SHEET (MSDS)

### Denatured Ethyl Alcohol

#### Section 1 - Chemical Product and Company Identification

**Product Name** : Denatured Ethyl Alcohol

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent v/v	EINECS/ELINCS
64-17-5	Ethyl alcohol	96 min	200-578-6
84-66-2	Di Ethyl Phthalate (DEP)	0.5 max	201-550-6
7732-18-5	Water	Balance	231-791-2

#### Section 3 - Hazards Identification

##### EMERGENCY OVERVIEW

Appearance: Colorless. Flash Point: 14 deg C

**Warning!** Causes severe eye irritation. Flammable liquid and vapor. Causes respiratory tract irritation. This substance has caused adverse reproductive and fetal effects in humans. May cause central nervous system depression. May cause liver, kidney and heart damage. Causes moderate skin irritation.

**Target Organs** : Kidneys, heart, central nervous system, liver.

##### Potential Health Effects

**Eye** : Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

**Skin** : Causes moderate skin irritation. May cause cyanosis of the extremities.

**Ingestion** : May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

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**Inhalation** : Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

**Chronic** : May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

#### Section 4 - First Aid Measures

**Eyes** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin** : Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion** : Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation** : Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician** : Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system diseases may be at increased risk from exposure to this substance.

#### Section 5 - Fire Fighting Measures

**General Information** : Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

**Extinguishing Media** : For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

**Flash Point** : 14 deg C

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Auto ignition Temperature : 422 deg C

Explosion Limits, Lower : 3.3 vol %

Upper : 19.0 vol %

### Section 6 - Accidental Release Measures

**General Information :** Use proper personal protective equipment as indicated in Section

**Spills/Leaks :** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

### Section 7 - Handling and Storage

**Handling :** Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage :** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

#### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA 3300 ppm IDLH	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Di Ethyl Phthalate (DEP)	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	none listed
Water	none listed	none listed	none listed

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**OSHA Vacated PELs:** Ethyl alcohol: 1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA  
 Di Ethyl Phthalate (DEP) : No OSHA Vacated PELs are listed.  
 Water: No OSHA Vacated PELs are listed.

**Personal Protective Equipment**

- Eyes** : 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.
- Skin** : Wear appropriate protective gloves to prevent skin exposure.
- Clothing** : Wear appropriate protective clothing to prevent skin exposure.
- Respirators** : 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.

**Section 9 - Physical and Chemical Properties**

- Physical State** : Liquid
- Appearance** : Colorless
- Odor** : Mild
- pH** : Not available.
- Vapor Pressure** : 59.3 mm Hg @ 25 deg C
- Vapor Density** : 1.59
- Evaporation Rate** : Not available
- Viscosity** : 1.200 cP @ 25 deg C
- Boiling Point** : 78 deg C
- Freezing/Melting Point** : -114.1 deg C
- Decomposition Temperature:** Not available.
- Solubility** : Miscible.
- Specific Gravity/Density** : 0.790 @ 20 °C

Constituent	Molecular Formula	Molecular Weight
Ethyl Alcohol	C <sub>2</sub> H <sub>6</sub> O	46.07
Diethyl Phthalate	C <sub>12</sub> H <sub>14</sub> O <sub>4</sub>	228.28
Water	H <sub>2</sub> O	18.01

**Section 10 - Stability and Reactivity**

- Chemical Stability** : Stable under normal temperatures and pressures.
- Conditions to Avoid** : Incompatible materials, ignition sources, excess heat, oxidizers.
- Incompatibilities with Other Materials:** Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine

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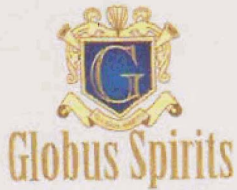
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pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + DEP nitric acid, permanganates, strong acids, strong oxidizers + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**

CAS# 64-17-5: KQ6300000  
CAS# 84-66-2: T11050000  
CAS# 7732-18-5: ZC0110000

**LD50/LC50:**

**CAS# 64-17-5:**

Draize test, rabbit, eye: 500 mg Severe;  
Draize test, rabbit, eye: 500 mg/24H Mild;  
Draize test, rabbit, skin: 20 mg/24H Moderate;  
Inhalation, mouse: LC50 = 39 gm/m<sup>3</sup>/4H;  
Inhalation, rat: LC50 = 20000 ppm/10H;  
Oral, mouse: LD50 = 3450 mg/kg;  
Oral, rabbit: LD50 = 6300 mg/kg;  
Oral, rat: LD50 = 7060 mg/kg;  
Oral, rat: LD50 = 9000 mg/kg;

**CAS# 84-66-2: T11050000**

Oral, rat: 9000 mg/kg  
Oral, Mouse: 6172 mg/kg  
Oral, rabbit: 1000 mg/kg

**CAS# 7732-18-5:**

Oral, rat: LD50 = >90 mL/kg;

**Carcinogenicity:**

CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 84-66-2: Not listed by ACGIH, IARC, NTP.  
CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology**

: Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome".

**Teratogenicity**

: Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception) Effects on Newborn - Apgar score (human only)

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and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence.

- Reproductive Effects** : Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) pre-mating) Fertility - female fertility Index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated).
- Mutagenicity** : DNA Inhibition: Human, Lymphocyte = 220 mmol/L.; Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Fibroblast = 12000 ppm.; Cytogenetic Analysis: Human, Leukocyte = 1 pph/72H (Continuous).; Sister Chromatid Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous).
- Neurotoxicity** : No information found

### Section 12 - Ecological Information

- Ecotoxicity** : Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3°C Fish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified) Bacteria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min; Microtox test When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.
- Environmental** : When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas. Rainout should be significant.
- Physical** : No information available.
- Other** : No information available.

### Section 13 - Disposal Considerations

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 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Alcohol, n.o.s.	No information available.
Hazard Class:	3	
UN Number:	1987	
Packing Group:	II	

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## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

- CAS# 64-17-5 is listed on the TSCA inventory.
- CAS# 84-66-2 is listed on the TSCA inventory.
- CAS# 7732-18-5 is listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

CAS# 84-66-2: 1000 lb final RQ; 454 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### SARA Codes

CAS # 64-17-5: immediate, delayed, fire.

#### Clean Air Act:

- This material does not contain any hazardous air pollutants.
- This material does not contain any Class 1 Ozone depleters.
- This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

- None of the chemicals in this product are listed as Hazardous Substances under the CWA.
- CAS# 84-66-2 is listed as a Priority Pollutant under the Clean Water Act
- None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### European/International Regulations

##### European Labeling in Accordance with EC Directives

##### Hazard Symbols:

F  
XI

##### Risk Phrases:

- R 11 Highly flammable
- R 36/37/38 Irritating to eyes, respiratory system and skin.

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**Globus Spirits**

**Safety Phrases:**

- S 16 Keep away from sources of ignition - No smoking.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 33 Take precautionary measures against static discharges.
- S 37/39 Wear suitable gloves and eye/face protection
- S 7 Keep container tightly closed.
- S 9 Keep container in a well-ventilated place.

**WGK (Water Danger/Protection)**

- CAS# 64-17-5: 0
- CAS# 84-66-2: 2
- CAS# 7732-18-5: No information available.

**Canada - DSL/NDSL**

- CAS# 64-17-5 is listed on Canada's DSL List.
- CAS# 84-66-2: is listed on Canada's DSL List.
- CAS# 7732-18-5 is listed on Canada's DSL List.

**Canadian Ingredient Disclosure List**

- CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.
- CAS# 84-66-2 is listed on the Canadian Ingredient Disclosure List.

**Section 16 - Additional Information**

**MSDS Creation Date :** 03/28/2013

**GLOBUS SPIRITS LIMITED**  
NEW DELHI

**Globus Spirits Limited**

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