

# SAFETY DATA SHEET



Date Prepared : 02/25/2014  
SDS No : 129146

## Denatured Alcohol

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Denatured Alcohol  
**GENERAL USE:** Solvent  
**PRODUCT CODE:** 129146  
**ALTERNATE TRADE NAME(S):** Methylated Alcohol, Reagent alcohol, Ethanol Denatured

#### MANUFACTURER

Fiberglass Coatings Inc.  
 4301A 34th Street North  
 St. Petersburg, FL 33714  
**Customer Service:** (800) 272-7890  
**E-Mail:** www.fgci.com  
**Emergency Contact:** Chem-Tel  
**Emergency Phone:** (800) 255-3924

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Skin Irritation, Category 2  
 Eye Irritation, Category 2B  
 Target Organ Toxicity (Single exposure), Category 2

##### Physical:

Flammable Liquids, Category 2

#### GHS LABEL



Flame



Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.  
 H320: Causes eye irritation.  
 H315: Causes skin irritation.  
 H335: May cause respiratory irritation.  
 H371: May cause damage to organs (or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
 H351: Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause

the hazard).

H361: Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

## PRECAUTIONARY STATEMENT(S)

### Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

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

P264: Wash ... thoroughly after handling.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P270: Do not eat, drink or smoke when using this product.

### Response:

P307+P311: IF exposed: Call a POISON CENTER or physician.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P302+P352: IF ON SKIN: Wash with plenty of water/...

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P370+P378: In case of fire: Use ... to extinguish.

### Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

### Disposal:

P501: Dispose of contents/container to ...

## EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS: Flammable.** Skin Irritant. Vapors can cause dizziness and drowsiness. Toxic to aquatic environment.

## POTENTIAL HEALTH EFFECTS

**EYES:** Can cause eye irritation. Symptoms include: stinging, tearing, redness. Swelling of the eyes can lead to blurred vision. Prolonged exposure will intensify effects.

**SKIN:** Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.

**SKIN ABSORPTION:** No harmful effects with normal skin. Potentially harmful amounts of material may be absorbed across markedly damaged skin when contact is sustained.

**INGESTION:** May cause dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination, coma and death

**INHALATION:** Low concentrations of vapor may cause irritation of the nose and throat. High concentrations vapor may cause central nervous system depression, with weakness, drowsiness, and loss of consciousness.

**MEDICAL CONDITIONS AGGRAVATED:** May aggravate pre-existing medical conditions of the following organs: Skin, Liver, Kidney

**ROUTES OF ENTRY:** Inhalation, Ingestion, Dermal.

**TARGET ORGAN STATEMENT:** Liver, Central nervous system.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name                 | Wt.%  | CAS        |
|-------------------------------|-------|------------|
| Ethanol                       | 92.24 | 64-17-5    |
| Methanol                      | 3.7   | 67-56-1    |
| Methyl Isobutyl Ketone (MIBK) | 1.91  | 108-10-1   |
| Ethyl Acetate                 | 1.33  | 141-78-6   |
| Solvent naphtha (petroleum)   | 0.67  | 64742-89-8 |

### 4. FIRST AID MEASURES

**EYES:** Flush eyes with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do so. Seek immediate medical attention.

**SKIN:** Immediately flush with plenty of soap and water. Remove and dispose of contaminated clothing. Seek medical attention.

**INGESTION:** Rinse mouth with water. Do not induce vomiting, seek medical attention if feeling unwell.

**INHALATION:** Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Category 2 Flammable Liquid

**EXTINGUISHING MEDIA:** Use dry chemical, CO<sub>2</sub>, water spray/fog (not jet), or foam

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon oxides.

**FIRE FIGHTING PROCEDURES:** Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a distance to an ignition source and flash back explosively. May produce a floating fire hazard. Static ignition can result. Electrically bond and ground all containers and equipment before transfer or use of material. Flame may be invisible. Approach fire with caution.

**FIRE FIGHTING EQUIPMENT:** Full Bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus (SCBA).

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Eliminate all sources of ignition. Take up small spills using non-combustible absorbent material. Transfer to proper disposal container.

**LARGE SPILL:** Follow procedure for small spills. Follow federal, state, and local regulations for disposal.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not allow spill to enter drains, sewers or waterways.

### 7. HANDLING AND STORAGE

**HANDLING:** Avoid ignition sources (flame, spark, smoking, etc.) in use or handling areas. Do not ingest or breathe vapors/fumes/dust. Avoid contact with eyes and skin. Always wear proper PPE when handling. Provide sufficient ventilation.

Respirator may be required if insufficiently ventilated.

**STORAGE:** Keep away from sources of ignition. Store in a cool place in the original container and protect from sunlight. Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) |                 |      |      |                   |
|---|-----------------|------|------|-------------------|
| Chemical Name                               | EXPOSURE LIMITS |      | ppm  | mg/m <sup>3</sup> |
|   | Type            |      |      |                   |
| Ethanol                                     | OSHA PEL        | TWA  | 1000 | 1900              |
|   | ACGIH TLV       | TWA  | 1000 | 1900              |
| Methanol                                    | OSHA PEL        | TWA  | 200  | 260               |
|   |                 | STEL | 250  | 325               |
|   | ACGIH TLV       | TWA  | 200  | 160               |
|   |                 | STEL | 250  | 325               |
| Methyl Isobutyl Ketone (MIBK)               | OSHA PEL        | TWA  | 100  | 410               |
|   |                 | STEL | 75   | 300               |
|   | ACGIH TLV       | TWA  | 20   | 82                |
|   |                 | STEL | 75   | 300               |
| Ethyl Acetate                               | OSHA PEL        | TWA  | 400  | 1400              |
|   | ACGIH TLV       | TWA  | 400  | 1440              |
| Solvent naphtha (petroleum)                 | OSHA PEL        | TWA  | 300  | 1350              |
|   |                 | STEL | 400  | 1800              |
|   | ACGIH TLV       | TWA  | 300  | 1350              |

**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 location.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical splash goggles and/or face shield. Always use proper eye protection around the work area.

**SKIN:** Use protective clothing which is chemical resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

**RESPIRATORY:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

**WORK HYGIENIC PRACTICES:** Never eat or drink in areas where the chemical is being used. Wash hands after handling to limit exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid.

**ODOR:** Alcohol-like.

**ODOR THRESHOLD:** No data available.

**APPEARANCE:** Colorless Liquid

**pH:** No data available.

**PERCENT VOLATILE:** No data available.

**FLASH POINT AND METHOD:** 10.5°C (51°F) Tag Open Cup

**FLAMMABLE LIMITS:** 3% to 19%

**AUTOIGNITION TEMPERATURE:** 363°C (685°F)

**VAPOR PRESSURE:** 48.4 mm Hg

**VAPOR DENSITY:** 1.6 (Air =1)

**BOILING POINT:** 77°C (171°F)

**MELTING POINT:** -114°C (-173°F)

**POUR POINT:** No data available.

**SOLUBILITY IN WATER:** Completely miscible.

**EVAPORATION RATE:** 3.6 (Butyl Acetate = 1)

**SPECIFIC GRAVITY:** 0.79 (Water = 1) at 20°C

**VISCOSITY:** No data available.

**(VOC):** No data available.

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** This product is stable under normal conditions of storage and use.

**CONDITIONS TO AVOID:** Heat, Open Flames, Electrical and Static electrical sparks, and any other possible source of ignition.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Avoid all unplanned contact with strong reactive chemicals, Nitric Acid, Sulfuric acid, and strong Oxidizers.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

| Chemical Name                 | ORAL LD <sub>50</sub><br>(rat) | DERMAL LD <sub>50</sub><br>(rabbit) | INHALATION<br>LC <sub>50</sub> (rat)  |
|-------------------------------|--------------------------------|-------------------------------------|---------------------------------------|
| Methanol                      | 300 mg / kg<br>Human           | 15800 mg / kg<br>(Rabbit)           | 64000 ppm<br>(inhalation/rat)<br>(8h) |
| Methyl Isobutyl Ketone (MIBK) | 2080 mg / kg<br>(Rat)          | > 1600 mg / kg<br>(Rabbit)          | 8.2 to 16.4<br>mg/m3 (4h)             |
| Ethyl Acetate                 | 5620 mg / kg<br>(Rat)          |                                     | 4000 ppm<br>(inhalation/rat)<br>(4h)  |
| Solvent naphtha (petroleum)   | > 2000 mg / kg<br>(Rat)        | > 2000 mg / kg                      | 3400 ppm<br>(inhalation/rat)<br>(4h)  |

**CARCINOGENICITY**

**NOTES:** Not considered carcinogenic by OSHA, NTP, or IARC.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** This mixture contains components that are potentially toxic to freshwater and saltwater ecosystems.

**ECOTOXICOLOGICAL INFORMATION:** No data available. Contact Env. Dept.

**GENERAL COMMENTS:** Do not allow undiluted product, or large quantities reach water environmental water sources.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Ethanol Solutions (Ethyl alcohol solutions) n.o.s

**TECHNICAL NAME:** Ethanol, Denatured

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1170

**PACKING GROUP:** II

**MARINE POLLUTANT #1:** Not Listed.

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Ethanol Solutions (Ethyl alcohol solutions) n.o.s

**TECHNICAL NAME:** Ethanol, Denatured

**UN/NA NUMBER:** 1170

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** II

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Ethanol Solutions (Ethyl alcohol solutions) n.o.s

**TECHNICAL NAME:** Ethanol, Denatured

**UN/NA NUMBER:** 1170

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** II

**EmS:** F-E;S-D

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Fire Hazard, Chronic (Delayed) Health Hazard.

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Not Listed.

#### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** Not Listed.

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Listed.

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All items are TSCA listed

**CALIFORNIA PROPOSITION 65:** The State of California has determined "no significant risk" from these chemicals. This product contains trace levels of acetaldehyde, CAS 75-07-0, known to the State of California to cause cancer

### CANADA

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** Not Listed.

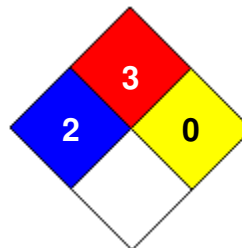
## 16. OTHER INFORMATION

**PREPARED BY:** BC **Date Prepared:** 02/25/2014

#### HMIS RATING

|                            |   |          |
|----------------------------|---|----------|
| <b>HEALTH</b>              | * | <b>2</b> |
| <b>FLAMMABILITY</b>        |   | <b>3</b> |
| <b>PHYSICAL HAZARD</b>     |   | <b>0</b> |
| <b>PERSONAL PROTECTION</b> |   |          |

#### NFPA CODES



**HMIS RATINGS NOTES:** The customer is responsible for determining the PPE code for this material.

**MANUFACTURER DISCLAIMER:** This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and local regulatory compliance requirements.