

# SAFETY DATA SHEET



Date Issued : 2/25/2014  
SDS No : 129183

## Methyl Ethyl Ketone (MEK)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Methyl Ethyl Ketone (MEK)  
**GENERAL USE:** Solvent  
**PRODUCT CODE:** 129183  
**ALTERNATE TRADE NAME(S):** 2-butanone, Ethylmethylketon, MEK

#### MANUFACTURER

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

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Skin Irritation, Category 2  
 Eye Irritation, Category 2  
 Target Organ Toxicity (Single exposure), Category 3

##### Physical:

Flammable Liquids, Category 2

#### GHS LABEL



Flame



Exclamation  
mark

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H225: Highly flammable liquid and vapor.  
 H315: Causes skin irritation.  
 H320: Causes eye irritation.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.

#### PRECAUTIONARY STATEMENT(S)

**Prevention:**

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
 P271: Use only outdoors or in a well-ventilated area.  
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P264: Wash thoroughly after handling.

**Response:**

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P362: Take off contaminated clothing and wash before reuse.  
 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 to fresh air and keep at rest in a position comfortable for breathing.  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:**

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

**Disposal:**

P501: Dispose of contents/container in accordance with all Federal, State, and local regulations.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Flammable. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited. Irritating to eyes. If swallowed, may be aspirated and cause lung damage. May cause central nervous system depression.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Methyl Ethyl Ketone	100	78-93-3

**4. FIRST AID MEASURES**

**EYES:** Flush eyes for at least 15 minutes, holding eyelids open. If easily accomplished, check for and remove contact lenses. Seek immediate medical attention.

**SKIN:** Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**INGESTION:** Give one or two glasses of water and call your local poison control center, hospital emergency room, or physician immediately for instructions. Never give anything by mouth to an unconscious person.

**INHALATION:** If product vapors or mists cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

**NOTES TO PHYSICIAN:** There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

**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

**EXPLOSION HAZARDS:** Vapors may form an explosive mixture with air.

**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. Dike ahead of spill to contain material. Notify proper authorities if the spill cannot be contained. Follow local, state, and federal regulations for disposal.

### ENVIRONMENTAL PRECAUTIONS

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

**GENERAL PROCEDURES:** Evacuate area of unprotected personnel. Eliminate potential sources of ignition (no smoking, flares, sparks or flames in immediate area). Stay upwind and keep out of low areas. Handling equipment must be bonded and grounded to prevent sparking.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid breathing and contact with material. Only use in well ventilated areas. Wash thoroughly after handling. Use the information in this data sheet to assess risks in local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**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)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Methyl Ethyl Ketone	TWA	200	590	200	590
	STEL	300		300	885

**ENGINEERING CONTROLS:** Adequate explosion-proof ventilation to control airborne concentrations.

### PERSONAL PROTECTIVE EQUIPMENT

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

**SKIN:** Avoid skin contact. Wear gloves to avoid constant skin contact.

**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.

**PROTECTIVE CLOTHING:** Chemical resistant protective suit, butyl rubber gloves, chemical resistant safety boots.

**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:** Characteristic odor.

**ODOR THRESHOLD:** N/A = Not Applicable

**APPEARANCE:** Clear liquid

**COLOR:** Colorless

**pH:** No data available.

**PERCENT VOLATILE:** No data available.

**FLASH POINT AND METHOD:** -4 °C (25 °F) ASTM D-56

**FLAMMABLE LIMITS:** 1.8% to 11.5%

**Notes:** Flammable limits in air % by volume

**AUTOIGNITION TEMPERATURE:** > 450 °C (842 °F)

**VAPOR PRESSURE:** 69.5 mm Hg @ 20 C

**VAPOR DENSITY:** 2.5 (Air = 1)

**BOILING POINT:** 79 °C (173 °F) to 81.1 °C (178 °F)

**FREEZING POINT:** No data available.

**MELTING POINT:** No data available.

**SOLUBILITY IN WATER:** Appreciable

**EVAPORATION RATE:** 6 (Butyl Acetate = 1)

**SPECIFIC GRAVITY:** 0.85 (Water = 1)

**VISCOSITY #1:** 0.52 cSt at 25 °C

**(VOC):** 100.000 %

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

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

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Avoid heat, ignition sources, constant contact with air / moisture, incompatible materials.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Methyl Ethyl Ketone	2737 mg / kg (Rat)	6480 mg/kg (Rabbit)	320 ppm (4h)

**EYE EFFECTS:** Eye irritant

**SKIN EFFECTS:** Skin Irritant.

### CARCINOGENICITY

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

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Readily Biodegradable. Practically non-toxic to most tested aquatic life.

**ECOTOXICOLOGICAL INFORMATION:** Do NOT discharge into sewers or waterways. May be harmful to aquatic life and the environment.

**BIOACCUMULATION/ACCUMULATION:** Not expected to Bioaccumulate

**AQUATIC TOXICITY (ACUTE):** Non-toxic to aquatic life.

**96-HOUR LC<sub>50</sub>:** 4467 mg/L (Bluegill sunfish)

**96-HOUR EC<sub>50</sub>:** < 520 mg/L

## 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:** Methyl Ethyl Ketone

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1193

**PACKING GROUP:** II

**NAERG:** 127

### AIR (ICAO/IATA)

**SHIPPING NAME:** Methyl Ethyl Ketone

**UN/NA NUMBER:** 1193

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** II

ERG: 127

**VESSEL (IMO/IMDG)**

SHIPPING NAME: Methyl Ethyl Ketone

UN/NA NUMBER: 1193

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

EmS: F-E, S-D

MARINE POLLUTANT #1: Not Listed.

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Fire Hazard, Immediate (acute) Health Hazard.

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

313 REPORTABLE INGREDIENTS: Not Listed.

**302/304 EMERGENCY PLANNING**

EMERGENCY PLAN: Not Listed.

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

CERCLA REGULATORY: Methyl ethyl ketone (CAS# 78-93-3)

CERCLA RQ: 5000 pounds

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

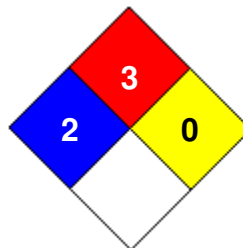
TSCA REGULATORY: All items are TSCA listed

**CALIFORNIA PROPOSITION 65:** This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.**CANADA****DOMESTIC SUBSTANCE LIST (INVENTORY):** All components are listed.**16. OTHER INFORMATION**

PREPARED BY: BC

**HMIS RATING**

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	3
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

**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.