



# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Identifier

Product Form:

Substance Name: FIBERLAY WEBBING SOLUTION

Product Code(s): 064P, 064Q, 064G, 064F

Synonyms:

### 1.2 Details of the Supplier of the Safety Data Sheet

Fiberlay Inc.

1468 Northgate Blvd

Sarasota, FL 34234

T 206-782-0660

F 888-782-0662

[www.Fiberlay.com](http://www.Fiberlay.com)

### 1.3 Emergency Telephone Number

Emergency Number: CHEMTREC: Domestic - 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture GHS-US classification

Flammable liquids:	Category 2, H226
Flammable liquids:	Category 3, H225
Acute toxicity, Oral:	Category 5, H303
Acute toxicity, Inhalation: Dust and Mist	Category 2, H330
Acute toxicity, Inhalation: Vapors	Category 4, H332
Acute toxicity, Inhalation: Gas	Category 1, H330
Skin irritation:	Category 2, H315
Eye irritation:	Category 2, H319
Skin sensitization:	Category 1, H317
Germ cell mutagenicity:	Category 2, H341
Carcinogenicity:	Category 2, H351
Reproductive toxicity:	Category 2, H361
Specific target organ systemic toxicity (single exposure):	Category 3, H335
Specific target organ systemic toxicity (single exposure):	Category 3, H336
Specific target organ systemic toxicity (repeated exposure):	Category 2, H371
Specific target organ systemic toxicity (repeated exposure):	Category 1, H372
Aspiration hazard:	Category 2, H305

Hazardous to aquatic environment: Chronic  
Hazardous to aquatic environment: Acute

Category 2, H411  
Category 2, H401

### Label elements GHS-US labeling

The substance is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard Pictograms (GHS-US)



Signal words (GHS-US): Danger

### Hazards statements (GHS-US):

H225 Highly flammable liquid and vapor  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H336 May cause drowsiness and dizziness  
H401 Toxic to aquatic life  
H411 Toxic to aquatic life with long lasting effects

### Precautionary statements (GHS-US)

#### Prevention:

P210 Keep away from heat, hot surfaces, open flames, sparks. – No Smoking  
P233 Keep container tightly closed  
P240 Ground/bond container and receiving equipment  
P241 Use explosion proof electrical, lighting and ventilating equipment  
P242 Use non-sparking tools  
P243 Take precautionary measures against static discharge  
P261 Avoid breathing mist, spray, vapors  
P264 Wash hands thoroughly after handling  
P271 Use only outdoors or in a well ventilated area P273 Avoid release to the environment  
P280 Wear protective gloves, clothing, and eye/ face protection

#### Response:

P301+P312 IF SWALLOWED: Call POISON CENTER and or doctor if you feel unwell  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: remove victim to fresh air and keep at rest in position comfortable for breathing  
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

P370 + P378 In case of fire: Use dry chemical powder, alcohol resistant foam, Carbon Dioxide for extinction

**Storage:**

P403+P233 store in a well ventilated place. Keep container tightly closed

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

P405 Store locked up

**Disposal:**

P501 Dispose of contents and containers in accordance with local, regional and international regulations

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)-Annex III

**Other hazards**

No other information available

**Unknown acute toxicity (GHS-US)**

No data available

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

Name	Product Identifier	% by weight	GHS-US classification
Toluene	CAS # 108-88-3	30-50	Flammable liquid 2, H225 Skin irritant 2, H315 Reproductive 2, H361 STOT SE 3, H336 STOT RE 2, H373 Aspiration toxicity 1, H304
Acetone	CAS # 67-64-1	30-50	Flammable liquid 2, H225 Acute toxicity 3, H331 Eye irritant 2A, H319 STOT SE 3, H335
Methyl Ethyl Ketone	CAS # 78-93-3	1-5	Flammable liquid 2, H225 Eye irritation 2, H319 STOT SE 3, H336
Isopropanol	CAS # 67-63-0	<1	Flammable liquid 2, H225 Eye irritation 2A, H319 STOT SE 3, H336
Nitrocellulose	CAS # 9004-70-0	2-10	Explosive 1.1, H201

Amounts specified are typical and do not represent a specification. Any other ingredients are either proprietary, non-hazardous or present in amounts below the reportable limits.

**4. FIRST AID MEASURES**

## Description of necessary first aid measures

### First-aid measures general:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

### First-aid measures after inhalation:

If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

### First-aid measures after skin contact:

Immediately remove contaminated clothing and shoes. Wash the affected area with plenty soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Seek medical attention if symptoms occur.

### First-aid measures after eye contact:

Immediately flush eyes with copious amount of clean water for an extended time (not less than 15 minutes). Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Seek medical attention if irritation develops or persists.

### First-aid measures after ingestion:

Do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious or convulsing person. Rinse out the mouth with water. Get medical attention immediately.

### Most important and effects, both acute and delayed symptoms:

Irritation may occur. Pre-existing skin problems may be aggravated by prolonged or repeated contact.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically

## 5. FIRE FIGHTING MEASURES

### Extinguishing media

#### Suitable extinguishing media:

Use water fog, foam, dry chemical or Carbon Dioxide

#### Unsuitable extinguishing media:

High volume water jet

### Special hazards arising from the substance or mixture

#### Fire hazard:

The product is a flammable liquid with accompanying flammable vapor. Keep containers tightly closed. Isolate the product from heat, electrical equipment, sparks, open flame and other sources of ignition. In this case fog nozzles are preferable.

#### Explosion hazard:

Closed containers may rupture when exposed to extreme heat.

#### Reactivity:

During a fire, irritating and or toxic gases and particulate may be generated by thermal decomposition or combustion.

#### Advice for firefighters

**Firefighting instructions:**

Use water spray to keep fire exposed containers cool.

**Protection during firefighting:**

Wear self-contained breathing apparatus (SCBA) equipped with a full face-piece and operated in a pressure demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SBCA during clean up immediately after a fire as well as during the attack phase of the fire-fighting operations.

**Additional information**

None available.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****General measures:**

Remove all sources of ignition (flame, hot surfaces and electrical, static or frictional sparks). Avoid contact and avoid breathing the vapors. Use self-contained breathing apparatus.

**For non-emergency personnel****Protective equipment:**

Wear chemical resistance (impervious) gloves

**Emergency procedures:**

Evacuate unnecessary personnel

**For emergency responders****Protective equipment:**

Equip clean-up crew with proper protection. Use appropriate personal protection equipment (PPE)

**Emergency procedures:**

Ventilate area

**Environmental precautions**

Do not flush product into public sewer, water systems or surface waters.

**Methods and material for containment and cleaning up for containment:**

Stop leak if without risk. Move containers from spill area. Contain by diking with sand, earth or other non-combustible material.

**Methods for cleaning up:**

Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container and store into a safe location to await disposal. Change contaminated clothing and launder before reuse.

**Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment

See Section 13 for disposal information

**7. HANDLING AND STORAGE**

## Precautions for safe handling

### Additional hazards when processed:

#### Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Do not breathe dust, vapor, mist or gas. Persons with a history of skin sensitization problems should not be employed in any process in which this product was used. Do not get in eyes

#### Hygiene measures:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

### Conditions for safe storage, including any incompatibilities

#### Technical measures:

Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion proof electrical, lighting and ventilating equipment.

#### Storage conditions:

Keep containers tightly closed and upright when not in use. Keep from freezing. Protect from physical damage.

#### Incompatible products:

See section 10

#### Incompatible materials:

See section 10

#### Storage area:

The product should be stored in a cool, dry and well ventilated area, at ambient temperature directly out of the sunlight.

#### Special rules on packaging:

Do not store in open, unlabeled or mislabeled containers. Keep containers closed at all times when not in use.

#### Specific end use(s)

Coating

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Occupational exposure limits:

Chemical Name	CAS #	EXPOSURE LIMITS
Toluene	108-88-3	OSHA PEL 100 ppm ACGIH TLV 20 ppm
Acetone	67-64-1	OSHA PEL 1,000 ppm ACGIH TLV 500 ppm
Methyl Ethyl Ketone	78-93-3	OSHA PEL 200 ppm ACGIH TLV 200 ppm
Isopropanol	67-63-0	OSHA PEL 400 ppm ACGIH TWA 200 ppm

**Exposure controls****Appropriate engineering controls:**

Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion proof equipment. Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment:**

Wear fire-proof clothing, protective goggles and gloves. Wear respiratory protection in a poor ventilated environment.

**Hand protection:**

Wear chemically resistant protective gloves

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Wear fireproof clothing

**Respiratory protection:**

If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

**Thermal hazard protection:**

Wear suitable protection clothing

**Other information:**

When using, do not eat, drink or smoke

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Appearance:</b>	Liquid dispersion
<b>Color:</b>	Clear/Transparent
<b>Odor:</b>	Strong aromatic solvent
<b>Odor threshold:</b>	Not determined
<b>pH:</b>	Not Applicable
<b>Relative evaporation rate (butyl acetate=1):</b>	Slower
<b>Melting point:</b>	Not Determined
<b>Freezing point:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid, gas):</b>	Not Applicable
<b>Vapor pressure:</b>	Not Determined
<b>Flash Point:</b>	-4 ° F
<b>Flash Point Method:</b>	Tag Closed Cup
<b>Relative vapor density @ 20 ° C:</b>	Heavier than air
<b>Relative density:</b>	0.868

**Density:** 7.23 lbs / gal  
**Solubility:** Partially miscible with water  
**Log Pow:** Not available  
**Log Kow:** Not available  
**Viscosity, kinematic:** Not available  
**Viscosity, dynamic:** Not available  
**Explosive properties:** **None**, however formation of explosive air/vapor mixture is possible  
**Oxidizing properties:** None known  
**Explosive limits:** 1% (V) lower & 13% (V) upper

**Other information:**  
 No further relevant information available

## 10. STABILITY AND REACTIVITY

### Reactivity

Exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

### Chemical Stability

Product is stable under normal storage conditions

### Conditions to Avoid

Heat, open flames, ignition sources, and static discharge

### Incompatible Materials

Avoid concentrated acids and strong oxidizers

### Hazardous Decomposition Products

Thermal decomposition may produce Carbon Monoxide and Carbon Dioxide

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### TOXICITY MEASURES:

Chemical Name	LD50/LC50
Toluene	Oral LD50: Rat 636 mg/kg Dermal LD 50: Rabbit 8,390 mg/kg Inhalation LC 50: Rat 12.5 mg/L/4 h
Acetone	Oral LD50: Rat 5,800 mg/kg Dermal LD50: Rabbit 20,000 mg/kg Inhalation LC50: Rat 44,000 mg/m <sup>3</sup> /4 h
Methyl Ethyl Ketone	Oral LD50: Rat 2080 mg/kg Dermal LD50: Rabbit >3 g/kg Inhalation LD50: Rat > 2,000 ppm
Isopropanol	Oral LD50: Rat 5,045 mg/kg Dermal LD 50: Rabbit 12,870 mg/kg Inhalation LC 50: Rat 73 mg/l/4h
Nitrocellulose	Oral LD50: Rat >5,000 mg/kg



**Skin corrosion/irritation:**

Caustic effect and a skin irritant

**Serious eye damage/irritation:**

Strong caustic effect and an irritant

**Respiratory or skin sensitization:**

Sensitization through prolonged inhalation is possible and skin sensitization may result from prolonged exposure. Also an irritant to the mucous membrane

**Germ cell mutagenicity:**

No applicable toxicity data

**Carcinogenicity:**

No classified

**ACGIH Carcinogens:**

Toluene (CAS # 108-88-3)

A3 Not classifiable as carcinogenicity to humans

**Reproductive toxicity:**

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Not classified

**Specific target organ toxicity (single exposure):**

May cause dizziness and drowsiness

**Specific target organ toxicity (repeated exposure):**

May cause damage to organs (Central Nervous System) through prolonged or repeated exposure

**Aspiration hazard:**

May be fatal if swallowed and enters airways

**Symptoms/injuries after inhalation:**

The product contains organic solvents which in case of overexposure may depress the central nervous system. Abusive inhalation has been reported to be associated with birth defects in the offspring of the abusers.

**Symptoms/injuries after eye contact:**

Burning and stinging of the eyes may persist

**Symptoms/injuries after ingestion:**

Harmful if swallowed as product may enter lungs

## 12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination.

**Toxicity**

May cause long term adverse effects in the aquatic environment.

**Persistence and degradability**

Not determined for this product but the following information is available for its main solvent components.

## **TOLUENE**

This compound is expected to biodegrade in aerobic and anaerobic water in 4 and 56 days respectively. It should have a half-life of 1 hour in rivers and 4 days in lakes. It should exist solely as a vapor in the atmosphere and is degraded by the reactions with photo-chemically produced hydroxyl radicals, nitrate radicals and ozone molecules. Estimated half-life with hydroxyl radicals is 3 days, nighttime reaction with nitrates half-life is 491 days and for ozone, the half-life is 27,950 days.

### **Bio-accumulative potential**

Not determined for this product but the main solvent components of Toluene and Methyl Ethyl Ketone indicate low bio-concentration potential. No bio-accumulation expected for Acetone.

### **Mobility in soil**

Not determined for this product but the following information is available for its main solvent components.

## **METHYL ETHYL KETONE (MEK)**

Using an experimental log Kow and a regression derived equation, the Koc of MEK is estimated to be approximately 123. According to a recommended classification scheme, this estimated Koc value suggests that MEK will have a high mobility in soil.

## **TOLUENE**

With clay minerals, Toluene adsorption is inversely proportional to the pH of the soil. The Kocs range from 37-178 in differing soils, so Toluene is expected to have high to moderate mobility in soil.

### **Other adverse effects**

Not determined for this product

## **13. DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

#### **Regional legislation (waste):**

Dispose of unused contents (incineration) in accordance with national and local regulations.

#### **Waste disposal recommendations:**

Ensure the use of properly authorized waste management companies where appropriate.

## **14. TRANSPORT INFORMATION**

In accordance with ICAO/IATA/DOT/TGD

### **Land transport**

#### **Department of transportation (DOT):**

This product is classified as Dangerous Goods, per U.S DOT regulations, under 49 CFR 172.101

<b>UN No:</b>	1263
<b>Proper Shipping Name:</b>	Paint Related Material
<b>Hazard classes:</b>	3
<b>Hazard labels (DOT):</b>	Flammable material
<b>Packing group (DOT):</b>	II
<b>DOT Label(s) required:</b>	Class 3 (Flammable)
<b>DOT Special Provisions (49 CFR 172.102):</b>	83
<b>Explosive Limit and Limited Quantity Index:</b>	5
<b>ERAP Index:</b>	None
<b>Passenger Carrying Ship Index:</b>	None

Passenger Carrying Road or Rail Vehicle Index: 60  
Additional information  
Emergency Response Guide (ERG) Number: 128  
Other information:

Transport by sea

#### INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO)

UN No.: 1263  
Proper Shipping Name: Paint Related Material  
Hazard Class Number: 3 (Flammable)  
Labels: Class 3 (Flammable)  
Packing Group: II  
Special Provisions: None  
Limited Quantities: 5 Liters  
Excepted Quantities: E2  
Packing: Instructions: P001; Provisions: PP1  
IBCs: Instructions: IBC02; Provisions: None  
Tanks: Instructions: T4; Provisions: T1, TP8  
EmS: F-E, S-E  
Stowage Category: Category B  
Marine Pollutant: Not designated as a marine pollutant

Air transport

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):

This product is classified as dangerous goods per IATA

UN Number: 1263  
Proper Shipping Name: Paint Related Material  
Hazard Class or Division: 3 Flammable  
Hazard Label(s) Required: Class 3 (Flammable)  
Packing Group: II  
Excepted Quantities: E2  
Passenger & Cargo Aircraft Packing Instructions: 353  
Passenger & Cargo Aircraft Maximum Net Quantity per package: 5 Liters  
Passenger & Cargo Aircraft Limited Quantity Packing Instructions: Y341  
Passenger & Cargo Aircraft Limited Quantity Maximum Net Quantity per package: 1 Liter  
Cargo Aircraft Only Packing Instructions: 364  
Cargo Aircraft Only Maximum Net Quantity per Package: 60 Liters  
  
Special Provisions: A3  
ERG Code: 3L

### 15. REGULATORY INFORMATION

U.S. Federal Regulations U.S.

#### OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations

U.S SARA Reporting Requirements:

The following components of this product are subject to reporting requirements of sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

CHEMICAL	SECTION 302 EHS (TPQ) (40 CFR 355, Appendix A)	SECTION 304 RQ (40 CFR Table 302.4)	SECTION 313 TRI (40 CFR 372.65)
Toluene	No	No	Yes
Acetone	No	No	No
Methyl Ethyl Ketone	No	No	Yes

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

**ACUTE:** Yes; **CHRONIC:** Yes; **FIRE:** Yes; **REACTIVE:** No; **SUDDEN RELEASE:** No

**Toxic Substances Control Act (TSCA):**

All components of this product are included on the TSCA inventory

**U.S. CERCLA Reportable Quantity (RQ):**

Toluene= 1000 lb (454 kg); Methyl Ethyl Ketone 5000 lb (2270 kg); Acetone 5,000 lb (2270 kg);

**U.S. Clean Air Act Threshold Quantity (TQ):**

The Toluene, Methyl Ethyl Ketone and components are listed as Hazardous Air Pollutants (HAPs) generally known or suspected to cause serious health problems. These chemicals are included on this list.

**U.S. Clean Water Act Requirements:**

Ethyl Benzene, Toluene and Xylene are designated as hazardous substances under Section 311 (b) (2) (A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments. The listed products are subjected to effluent limitations.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):**

This product can expose you to chemicals including toluene which is known to the State of California to cause birth defects or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Canadian WHMIS Classification:**

This product is classified as a controlled product. Hazard classes B2 (Flammable liquid); D2B Toxic

**Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:**

Under Section 64, Xylene and Toluene are not considered toxic but are listed on the Priority Substances List 1.

**European Inventory of Existing Chemicals (EINECS):**

All of the components of this product are included on EINECS.

**16. OTHER INFORMATION**

**Indication of changes:**

**Other information:**

Full text of H phrases:

<b>STOT SE 3</b>	Specific Target Organ Toxicity-Single Exposure, Category 3, Narcosis
<b>STOT RE 2</b>	Specific Target Organ Toxicity-Repeated Exposure, Category 2



**NFPA health hazard:** 2- Moderately toxic or hazardous material which require additional PPE or equipment than safety goggles and gloves.

**NFPA fire hazard:** 3- Liquids and solids that can be ignited under almost all ambient conditions.

**NFPA reactivity:** 0- Normally stable, even under fire exposure conditions, and not reactive with water.

**Fiberlay Inc. believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in Fiberlay products. Based on a review of the list, Fiberlay products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.**

**Preparation Date:** 12-14-18

**Prepared by:** Kevin Aber

**Comments:** This Safety Data Sheet was prepared using information provided by Fiberlay Inc.

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