



FIBRE GLAST DEVELOPMENTS CORP.  
385 CARR DRIVE  
BROOKVILLE, OH 45309  
Rev 09/08

TELEPHONE: (937) 833-5200  
FAX: (937) 833-6555  
**FOR CHEMICAL EMERGENCY  
CALL (800) 424-9300 24 HRS.**

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## SECTION 1 - PRODUCT IDENTIFICATION

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PRODUCT NAME: PART #2648 Triaxial Braided Carbon Fabric

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## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

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CHEMICAL TYPE: Carbon (Carbon Fiber)  
CAS Number: 7440-44-0  
SUBSTANCE ( ) MIXTURE (0): UN CLASS & UN NUMBER: N.A.

Chemical Name	Comp. (%)	Chemical Formula (constitutional Formula, Structural Formula)	CAS No.	TSCA
Carbon Fiber	≥94	Carbon Fiber	7440-44-0	Registered
Sizing Agent	≤2	Not open to public	Registered	Registered

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## SECTION 3 – HAZARDS IDENTIFICATION

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3.1 CLASS NAME OF HAZARDOUS CHEMICALS FOR MSDS  
Non-hazardous material

3.2 PHYSICAL & CHEMICAL HAZARDS  
Explosive: N/A

3.3 ADVERSE HUMAN HEALTH EFFECTS  
Acute Toxic Substance: No case of disease, which is caused by Carbon Fiber, has been reported. Short fiber, for example particles or fly, can cause transient skin irritation.

3.4 ENVIRONMENTAL EFFECTS  
3.4.1 Carbon fiber is electrically conductive, and it can cause the short-circuiting of electrical equipment  
3.4.2 Airborne Carbon Fiber can also disturb electrical equipment

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## SECTION 4 – FIRST-AID MEASURES

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- 4.1 INHALATION  
Move to fresh air and wash inside mouth with water. If dizzy or unbalanced seek medical attention as soon as possible
- 4.2 SKIN CONTACT  
No special measures requested
- 4.3 EYE CONTACT  
Wash eyes with an excessive amount of water immediately for no less than 15 minutes. If contacts are being used, remove the lens and flush the eyes again with water for an additional 5 to 10 minutes. If the eyes feel uncomfortable or have prickling feeling, seek medical attention as soon as possible.
- 4.4 INGESTION  
Rinse mouth with fresh water. Then drink two or three glasses of water. Induce vomiting by touching the finger to the back of the throat. Then seek medical attention as soon as possible.
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## SECTION 5 – FIRE-FIGHTING MEASURES

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- 5.1 SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES  
Apply water from a safe distance to cool and protect surrounding area.
- 5.2 EXTINGUISHING MEDIA  
In case of fire, use water spray, foam, dry chemical powder or carbon dioxide. Dry chemical powder, carbon dioxide or dry sand should be used for small fires.
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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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- 6.1 MEASURES FOR HANDLING PERSONNEL  
No special measures requested
- 6.2 MEASURES FOR ENVIRONMENTAL EFFECTS  
No special measures requested
- 6.3 MEASURES WHEN HANDLING SPILLED SUBSTANCE  
N/A
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## SECTION 7 – HANDLING AND STORAGE

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- 7.1 HANDLING  
Exposure control for handling personnel: N/A  
Protective measures against fire & explosion: N/A  
Others: Touching Carbon Fiber directly can cause transient skin irritation. Hold the paper tube while handling bobbins

## 7.2 STORAGE

Store bobbins in a cool, dark space. Low humidity is recommended

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## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

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### 8.1 CONTROL PARAMETERS

No data are available for the product

Content	Carbon Fiber
LABOR SAFETY & HEALTH ACT(JAPAN) ppm (mg/m <sup>3</sup> )	2.9mg/m <sup>3</sup> (reference value by "Kokuji" by Min. of Labor Japan (1995))
OSHA ppm (mg/m <sup>3</sup> )	2.0 mg/m <sup>3</sup> as the total dust of the first class dust by the Japanese regulation (reference value) etc.
ACGIH ppm (mg/m <sup>3</sup> )	10.0 mg/m <sup>3</sup> as "kyuunyuusei" dust not classified to other categories, etc. (reference value)

### 8.2 ENGINEERING MEASURES

Local extract ventilation is recommended where dust and fly are generated by cutting or processing Carbon Fiber. Filter in ventilation requested to prevent dust and fly from being discharged into open air.

### 8.3 PERSONAL PROTECTIVE EQUIPMENT

8.3.1 Respiratory protection: Adequate respirator is requested to keep from inhaling dust and fly particles.

8.3.2 Eye protection: Adequate protective goggles are requested to keep eyes from dust and fly.

8.3.3 Hand, skin and body protection: Adequate protective gloves are requested to keep skin from dust and fly.

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## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

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Appearance: Black Fiber	Odor: None
Density: 1.6-2.0	Boiling Point: N/A
Melting point: N/A	Vapor pressure: N/A
Vapor density: N/A	Solubility(%): In soluble In water: N/A In others: N/A
Volatility: N/A	Others: N/A

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## SECTION 10 – PHYSICAL HAZARD (STABILITY & REACTIVITY)

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Flash Point: None	Spontaneous ignition temperature: None
Explosion limit (%): None Upper: None Lower: None	Combustibility: Not Spontaneous Reactivity with water: None
Flammability: N/A	Dust explosion: N/A
Oxidizibility: Oxidized by strong oxidizer. Stable for other chemicals	Self-reactivity: None

Oxidation can progress slowly and become red-hot when exposed to high temperatures greater than 240°C in air.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

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Acute toxicity: N/A  
Sub-chronic toxicity: N/A  
Chronic toxicity: N/A  
Carcinogenic effects: No silicosis case is reported on inhalation test with mouse.  
Mutagenic effects: In one component of Sizing Agent, Bisphenol A epoxy resin, the Mutagenic effect on a microbe is recognized.  
Irritant properties: Contact with fly or dust can cause skin pricking.  
Teratogenic effects: N/A

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## SECTION 12 – ECOLOGICAL INFORMATION

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Biodegradability: N/A  
Bioaccumulation: N/A  
Fish toxicity: N/A

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## SECTION 13 – DISPOSAL CONSIDERATION

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- 13.1 In case of disposal, this product must be treated as industrial waste, separated from public waste.  
13.2 This product should not be incinerated. Carbon fiber can not be incinerated well by a general incinerator, and the fibrous fragments, which may be generated by insufficient incineration, may cause the short-circuiting of electrical equipment.
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## SECTION 14 – TRANSPORTATION INFORMATION (N/A)

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## SECTION 15 – REGULATORY INFORMATION

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Regulatory/Classification	Reg. Info.	Substance Name	Allowed Concentration	
TSCA (USA) No.	N/A	7440-44-0 Carbon Fiber	N/A	N/A
EINECS No.	N/A	N/A	N/A	N/A
California Proposition 65	N/A	N/A	N/A	N/A
FDA UL	N/A	N/A	N/A	N/A
CAS	N/A		N/A	N/A
OSHA	N/A	N/A	N/A	N/A

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## SECTION 9 - COMMENTS

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The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with **Fibre Glast Developments Corporation** or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.