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Rev 11/11

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**FOR CHEMICAL EMERGENCY
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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PART #2363 1K, Plain Weave Carbon Fabric

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL TYPE: Carbon (Carbon Fiber)
CAS No.: 7440-44-0 (Carbon)

SUBSTANCE () MIXTURE (O): 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

SECTION 3 – HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICALS FOR MSDS
Non-hazardous material

PHYSICAL & CHEMICAL HAZARDS
Explosive: N/A

ADVERSE HUMAN HEALTH EFFECTS
Acute Toxic Substances: 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.

ENVIRONMENTAL EFFECTS
Carbon Fiber is electrically conductive, and it can cause the short-circuiting of electrical equipments.
Airborne Carbon Fiber can also disturb electrical equipment.

HEALTH HAZARD DATA
Primary Route of Entry: Inhalation, Eyes, Dermal, Ingestion
Effects of Overexposure:

Inhalation: Nuisance dust may cause temporary but reversible respiratory problems.

Eyes: Abrasive action may cause damage to the outer surface of the eye. Avoid wearing contact lenses if airborne carbon fiber particle fly is particularly heavy.

Skin Contact: Fiber contact may cause slight itching and irritation.

Ingestion: Not a likely source of entry due to physical nature of material.

Chronic: Product does not contain carcinogenic materials as defined by OSHA Communication Act 1910.1200.

SECTION 4 – FIRST-AID MEASURES

INHALATION:

Move to fresh air space and wash inside mouth with water. If dizzy or unbalanced, seek medical attention as soon as possible.

SKIN CONTACT:

If transient skin irritation occurs, remove contaminated clothing and wash thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.

EYE CONTACT:

Immediately wash eyes with an excessive amount of water for at least 15 minutes. If contacts are being used, remove the lens and flush the eyes again with water for an additional 5-10 minutes. If the eyes feel uncomfortable or have prickly feeling, seek medical attention as soon as possible.

INGESTION: Do not induce vomiting. Rinse mouth with fresh water. Then drink two or three glasses of water. Seek medical attention as soon as possible.

SECTION 5 – FIRE-FIGHTING MEASURES

SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES:

Apply water from a safe distance to cool and protect surrounding area.

EXTINGUISHING MEDIA:

In case of fire, use water spray, foam, dry chemical powder, or carbon dioxide. Dry chemical powder, carbon dioxide or dry and should be used for small fires.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

MEASURES FOR HANDLING PERSONNEL: No special measures requested.

MEASURES FOR ENVIRONMENTAL EFFECTS: No special measures requested.

MEASURES WHEN HANDLING SPILLED SUBSTANCES: N/A

SECTION 7 – HANDLING AND STORAGE

HANDLING

Exposure control for individuals handling product:

Contact with carbon fiber can cause transient skin irritation. Hold the paper tube when handling bobbins to limit contact. To limit exposure wear cloth/leather gloves and cover exposed areas with normal work clothing. Additional protection may be needed if particle limits are excessive.

Protective measures against fire & explosion: N/A

STORAGE

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

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS

No data are available for the product

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

ENGINEERING MEASURES

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

PERSONAL PROTECTIVE EQUIPMENT

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

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

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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: Insoluble In water: N/A In others: N/A
Volatility: N/A	Others: N/A

SECTION 10 – STABILITY AND REACTIVITY

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.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity: N/A

Sub-chronic toxicity: N/A

Chronic toxicity: N/A

Carcinogenic effects: No silicosis case has been 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 irritation.

Teratogenic effects: N/A

SECTION 12 – ECOLOGICAL INFORMATION

Biodegradability: N/A

Bioaccumulation: N/A

Fish Toxicity: N/A

SECTION 13 – DISPOSAL CONSIDERATION

In case of disposal, this product must be treated as industrial waste, separated from public waste.

The product should not be incinerated. Carbon Fiber can not be incinerated well by general incinerator, and the fibrous fragments which may be generated by insufficient incineration may cause the short-circuiting of electrical equipment.

SECTION 14 – TRANSPORT INFORMATION

N/A

SECTION 15 – REGULATORY INFORMATION

Regulatory/Classification	Reg. Info.	Substance Name	Allowed Concentrations	
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	N/A	N/A	N/A	N/A
UL	N/A	N/A	N/A	N/A
CAS	N/A	7440-44-0	N/A	N/A
REACH	Article Only	Carbon Fiber	N/A	N/A
OSHA	N/A	N/A	N/A	N/A

SECTION 16 - COMMENTS

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.