



GHS SAFETY DATA SHEET (SDS)

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PART # Carbon Fiber Tape – Parts #692 (2"), #693 (3"), #694 (4"), #696 (6")

FIBRE GLAST DEVELOPMENTS CORP.
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**FOR CHEMICAL EMERGENCY
CALL (801) 629-0667 24 HRS.**

RECOMMENDED USE: Woven textile product used for reinforcement in various resin systems

SECTION 2 – HAZARDS IDENTIFICATION

OSHA HCS Status: This product is a hazardous chemical, as defined by OSHA at 29 CFR 1910.1200. Hazards identified are based on hazards of the ingredients. The finished product has not been tested.

Relevant Route of Exposure/Target Organs: Dermal, Inhalation

OSHA/GHS Signal Word and Hazard Statements:

WARNING: Causes mild skin irritation. May cause respiratory irritation.

OSHA/GHS Classification and Pictograms:

Skin irritation (Hazard Category 3)

Specific target organ toxicity, single exposure: Respiratory tract irritation (Hazard Category 3)



OSHA/GHS Precautionary Statements:

Prevention

Avoid breathing fibers or dust. Use only outdoors or in a well-ventilated area. Keep containers tightly closed.

Response

If inhaled: Remove victim to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

Storage

Store in a well-ventilated place. Store locked up. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

GHS Hazard and Precautionary Statement Codes: See Section 16

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Product Name: Carbon fabric

Synonyms: Fibrous carbon

Component	CAS #	Max % by weight
Carbon Fiber	7440-44-0	99.5
Fibrous carbon dust	Not Assigned	Not Known ^A
Trade Secret Sizing Chemistry ^B	N/A	3

A) Amount will be dependent upon method of handling

B) Trade secret per fiber producer.

Comment on component parts: No dangerous components

SECTION 4 – FIRST AID MEASURES

Skin Contact: Flush with ample cool water followed by washing with mild soap to remove accumulated fibers.

Eye Contact: Flush with flowing water for 15 minutes – seek medical attention.

Inhalation: Move to fresh air. Seek medical attention if breathing becomes difficult.

Ingestion: Not likely to occur through normal use. Should ingestion occur, seek medical attention.

Most Important Symptoms/Effects: None known

Indication of Immediate Medical Attention and Special Treatment Needed: Not applicable

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media: Water spray or fog, carbon dioxide or dry chemical.

Extinguishing Media to avoid: Full water jet

Hazardous Combustion Products: Carbon oxides (COx) and Nitrogen oxides (NOx).

Protective Equipment: Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: A release of this product is not expected to pose risks to workers under normal circumstances. If the material is involved in a fire, or if dusts are produced, no action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment

Protective Equipment: Wear protective gloves/eye protection/skin protection

Methods/Materials for Containment and Cleaning Up: Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant. Dispose of in accordance with all government regulations. Do not discharge into waterways or sewer systems without proper authority.

SECTION 7 – HANDLING AND STORAGE

Precautions: This product should be handled under conditions of good industrial hygiene and in conformity with any local regulations to avoid unnecessary exposure.

Use in a well-ventilated area. Do not breathe dust. Avoid contact with skin.

Storage: Store in a well-ventilated, dry location.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Component	OSHA/PEL	ACGIH/TLV
Fibrous dust	5 mg/m ³ (respirable)	5 mg/m ³

* Dust may be produced during handling

Engineering Measures: Engineering controls are not usually necessary if good hygiene practices are followed.

Personal Protection Measures/Equipment:

Skin Protection – Barrier creams, gloves, and long sleeve loose fitting clothing may be required for certain workers who have sensitive skin or contact dermatitis. Work clothing should be laundered separately from other clothing before reuse.

Eye Protection – Not normally required, but as a good safety work practice, eye protection such as safety glasses/side shields or equivalent whenever use of the product releases airborne fibrous carbon.

Respiratory Protection – If airborne fibrous carbon exceeds the regulatory limits, or if upper respiratory irritation occurs, use a N95 particulate filtering respirator.

Other Protection – Observe good personal hygiene

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Solid, black

Odor: Odorless

Odor Threshold: None

pH: None

Melting Point/Freezing Point: >3316°C (>6000°F)

Initial Boiling Point: Not applicable

Flash Point: Not applicable

Evaporation Rate: Not applicable

Flammability: Not applicable

Upper/Lower Flammability or Explosive Limits: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Relative Density/Specific Gravity: 1.76 – 1.86 (carbon density)

Solubility: Insoluble

Partition Coefficient: Not known

Auto-ignition Temperature: Not known

Decomposition Temperature: Not known

Volatility: Not known

Viscosity: Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: This product is stable.

Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur. Carbon fibers, dust, and fibrous particles are electrically conductive and can cause shorting in electrical equipment. Explosive shorting of high voltage systems is possible.

Conditions to Avoid: When exposed to high temperatures may produce hazardous decomposition products.

Incompatible Materials: No specific incompatibility

Hazardous Decomposition Products: No hazardous decomposition products will be formed during usage of carbon fiber. Complete or partial combustion of the surface coating on “sized” carbon fiber may generate COx, NOx, and other/or other trace chemicals.

Hazardous Polymerization: Will not occur

SECTION 11 – TOXICOLOGY INFORMATION

Relevant Route of Exposure/Target Organs: Dermal, Inhalation

Symptoms: Causes mild skin irritation. Material may cause irritation of the mouth, nose, and throat after inhalation exposure.

Delayed and Immediate Effects: Not known

Chronic Effects (Short and Long Term Exposure): Not known

Numerical Measures of Toxicity:

Carbon: Oral LD₅₀ (rat): >2000 mg/kg

Dermal LD₅₀ (rabbit): >2000 mg/kg

Carcinogenicity: No ingredient is listed as a carcinogen by the NTP, IARC, or OSHA at 29 CFR 1910 Subpart Z.

Mutagenicity: No data available

Reproductive Toxicity: No data available

SECTION 12 – ECOLOGICAL INFORMATION

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not discharge into waterways or sewer systems without proper authority. Dispose of in accordance with all government regulations

SECTION 14 – TRANSPORT INFORMATION

Not regulated as a hazardous material/dangerous good for transportation in all modes of transportation (US DOT, ICAO/IATA, IMO)

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory Status: Exempt per section 8(a), 710.2(f), and 704.5(a)

SARA Title III Section 302: None

SARA Title III Section 304: None

SARA Title III Section 311/312 Hazard Categories: Immediate (acute)

SARA TITLE III Section 313: This product does not contain components that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 (EPCRA or SARA Title III) and 40 CFR 372.

CERCLA RQ: Not listed

California Proposition 65: None known

Massachusetts Right-To-Know: Less than reportable quantity

New Jersey Right-To-Know: Less than reportable quantity

Pennsylvania Right-To-Know: Less than reportable quantity

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the Canadian DSL.

Europe: All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are not required to be listed on the EINECS.

China: All components of this product are included on the Chinese Inventory (IECSC) or are not required to be listed on the Chinese IECSC.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean ECL.

Philippines: All components of this product are included on the Philippine (PICCS) or are not required to be listed on the Philippine PICCS.

Australia: All components of this product are included on the Australian (AICS) or are not required to be listed on the Australian AICS

SECTION 16 – OTHER INFORMATION

Revision Date

5/8/2023

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.

This product is classified as a Skin Irritant Category 3; however OSHA does not include Category 3 substances in its hazard classification system.

GHS Label Hazard Statement Codes

Signal Word: WARNING

H316: Causes mild skin irritation

H335: May cause respiratory tract irritation.

GHS Label Precautionary Statement Codes

P261: Avoid breathing dusts or fibers.

P271: Use only outdoors or in well-ventilated area.

P304+P340: IF INHALED: Remove victim 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.

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

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

Abbreviations

ACGIH/TLV	American Conference of Industrial Hygienists Threshold Limit Value
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	US Code of Federal Regulations
DOT	US Department of Transportation
EPCRA	Emergency Planning and Community Right to Know Act
GHS	UN Globally Harmonized System of Classification and Labeling of Chemicals
HCS	Hazard Communication Standard
IARC	International Agency for Research on Cancer
ICAO/IATA	International Civil Aviation Organization/International Air Transport Association
IMO/IMDG	International Maritime Organization/International Maritime Dangerous Goods Code
LD50	Lethal dose to half of test animals
NTP	National Toxicology Program
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety data sheet
TSCA	Toxic Substances Control Act
UN	United Nations
US/USA	United States