



GHS SAFETY DATA SHEET (SDS)

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PART #1072, 12K 19.8 Oz Carbon Fiber Twill

FIBRE GLAST DEVELOPMENTS CORP.
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BROOKVILLE, OH 45309

TELEPHONE: (937) 833-5200
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**FOR CHEMICAL EMERGENCY
CALL (801) 629-0667 24 HRS.**

RECOMMENDED USE: Standard Composite Manufacturing

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Appearance and odor

Black continuous carbon fiber with resin sizing applied and no distinctive odor. It is not expected to present any immediate concern for emergency response personnel. It may cause mild or temporary mechanical or skin irritation.

The carbon fibers are electrically conductive and may cause or create electrical short circuits or malfunctions of electrical equipment and or personal injury (if handled inappropriately around electricity).

Potential Health Effects

Eyes: Contacts with this product may cause mechanical eye irritation and or eye redness. Dust from cutting or grinding of product (by customer processing) may cause mechanical eye irritation.

Skin: May cause skin irritation and redness as well as itching and drying of skin. Mechanical irritation may occur from carbon fiber abrading onto skin through mechanical motions (rubbing, scratching). Prolonged exposure or repeated contact may cause allergic skin reactions and possible sensitizations.

Inhalation: Exposure to respirable fibers of this product is not expected to occur under normal industrial conditions due to size(5-7 microns in diameter). In a dust created environment, it may cause mechanical irritation to the mucus membranes and upper respiratory tracts.

Ingestion: Not expected to occur during industrial activities. If it is ingested, this product is not expected to cause any significant adverse effects.

Carcinogenic information: The components present in this material are not listed or regulated by IARC; NTP; and OSHA.

Precautions: Avoid direct contact with eyes and skin. Avoid breathing dust if chopping or grinding. Do not swallow. Do not eat, drink or smoke in work area. Wash thoroughly after handling. Wear proper fitting PPE.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Material/CAS Number	Percent	OSHA(Pell)
Substrate:		
Carbon fabric comprised of continuous		
Carbon fiber,synthetic, 7440-44-0	>96.5-99% (typical)	15mg/m ³ (total) 5mg/m ³ (respirable)
Organic Surface Binder/Sizing,	>0.1—1.5% (typical)	
Typically epoxy resin sizing –Proprietary Mixture		

This product is not classified as a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. The percentages listed above will vary dependent upon the specific carbon fiber used to manufacture the woven fabric; as well as the sizing epoxy configuration percentages.

SECTION 4 – FIRST AID MEASURES

INHALATION: Remove from current environment (source) area to fresh air. Contact emergency room or physician for treatment information if problems persist.

EYE/SKIN CONTACT: **EYE(S):** Rinse with a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact emergency room, or physician as further medical treatment may be necessary.

SKIN: Avoid scratching or rubbing affected area as this may lead to more mechanical type irritation. Immediately wash with a gentle stream of ambient or cool water over the affected area for several minutes. A mild soap may be used if available. If any symptoms persist, seek medical attention as further treatment may be necessary. If carbon fiber becomes embedded due to mechanical action, seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: Use extinguishers appropriate for surrounding fire such as dry chemical, foam or CO₂, or water spray.

SPECIAL FIRE HAZARDS: Avoid exposure to fire by using a self-contained positive pressure breathing apparatus as well as other protective fire-fighting equipment normally worn for fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Sweep or gather up material and place in proper container for disposal or recovery. Use vacuuming or wet sweeping methods instead of dry sweeping. Wear the proper personal protective equipment as described in Section 8 for cleanup activities. Do not incinerate, instead place into plastic bags or other landfill approved containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store at or below 25°C (77°F) and relative humidity less than 65% for optimum performance. Wear the specified PPE protection as described in Section 8 when handling product.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: The values below are for particulates not otherwise classified and apply only under certain circumstances or conditions.

OSHA: Not established —guidelines-- 15 mg/m³ TWA. (total dust) 5 mg/m³ TWA. (respirable dust)

ACGIH: Not established—guidelines-- 10 mg/m³ TWA (inhalable fraction) 3 mg/m³ TWA (respirable fraction)

RESPIRATORY PROTECTION: Normal use or application of this product does not generate dust. If other procedures create dust, use an appropriate NIOSH-approved particulate filter respirator.

VENTILATION: Use local exhaust or general room/dilution ventilation sufficient to maintain employee exposure below permissible exposure limits.

EYE AND FACE PROTECTION: Wear standard safety glasses with side shields or goggles as a good safety practice.

OTHER PROTECTIVE EQUIPMENT: Wear clean, body-covering clothing (lab-coat or smock). Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls or long sleeved loose fitting clothing will maximize comfort. Work clothing should be laundered separately from other clothing before reuse. Discard all types of PPE that have been contaminated .

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Black continuous fiber
ODOR:..... Odorless
SPECIFIC GRAVITY (Water=1): 1.75 – 1.85
MELTING POINT: ...carbon fiber ---- >6500° F/ 3600° C
SOLUBILITY (wt.% in water) insoluble
VAPOR PRESSURE NA
PHYSICAL STATE.....Solid

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur under normal storage or handling conditions.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID): None known under normal circumstances. If exposed to burning conditions of a high heat source; carbon oxides and other unidentified gases and vapors produced may be toxic. Avoid inhalation in these conditions without a properly approved breathing apparatus.

SECTION 11 – TOXICOLOGY INFORMATION

CARCINOGENICITY STATUS: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

Acute Toxicological data:

There is no acute data available on this product. The oral, dermal, and inhalation acute toxicity of this product are expected to be very low.

Eye irritation: not determined

Skin irritation: not determined
Inhalation irritation: not determined

Sensitization of the fiber manufacturer's proprietary uncured epoxy resin sizing could occur. Consult the carbon fiber manufacturer SDS document for more information.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Carbon fiber is generally considered to be an inert solid waste. No ecological data has been determined. The material is not classified as harmful to the environment. Component as carbon fiber CAS # 7440-44-0

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Waste material must be disposed by the user in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14 – TRANSPORT INFORMATION

Proper Shipping Name: Not regulated as hazardous or dangerous goods.

SECTION 15 - REGULATORY INFORMATION

US EPA TSCA: This product is considered an article and is exempt from TSCA requirements. RCRA 40 CFR part 261.33: classified as non hazardous waste.

SARA TITLE III:

SARA (311, 312) Hazard Class: NA

SARA (313) Chemicals: Contains no toxic chemicals at or above the determined threshold subject to report requirements.

SARA Extremely Hazardous Substance: Not listed.

CERCLA Hazardous Substance: Not listed.

CA Proposition 65: insignificant trace quantity; none.

PA;MA;NJ right to know: less than reportable quantity
CANADA REGULATIONS (WHMIS): Not Applicable.

SECTION 16 – OTHER INFORMATION

Revision Date

5/24/2023

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.