



GHS SAFETY DATA SHEET (SDS)

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PART # 530 - 3K Plain Weave Carbon Fiber Fabric

FIBRE GLAST DEVELOPMENTS CORP.
385 Carr Drive
BROOKVILLE, OH 45309

TELEPHONE: (937) 833-5200
FAX: (937) 833-6555
**FOR CHEMICAL EMERGENCY
CALL (801) 629-0667 24 HRS.**

RECOMMENDED USE: Black colored continuous fiber

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA Regulatory Status This Product is Not Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Physicochemical Physical: Carbon fiber contained in some products is electrically conductive.

Label elements

Hazard statements NC Not Classified

Other hazards

Warning! This may cause mild, temporary mechanical eye and skin irritation. Vapor or fumes evolved during use and/or heating or curing the product may cause respiratory tract and eye irritation. Dust or particulates from machining, grinding or sawing the cured product may causes skin, eye and upper respiratory tract irritation, allergic skin reaction and possible sensitization.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Composition comments Carbon fiber can be with or without size. Graphite (carbon) synthetic fibers, filament diameter
> 4um: >97% w/w Size: <3% w/w

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

Inhalation	With any sign of respiratory distress, affected persons should be taken into fresh air and made to rest while medical attention is sought.
Ingestion	Immediately rinse the mouth repeatedly with water, if swallowing has occurred, do not induce vomiting. If requested, give affected person sips of water. Seek medical attention immediately. If vomiting does occur do not allow the affected person to inhale their vomit. Do not give anything by mouth to an unconscious person.
Skin Contact	In case of contact with the product or the cured product dust or particulate, immediately wash skin with mild soap and water. Use a washcloth to help remove the fibres. To avoid further irritation, do not rub or scratch irritated areas. Rubbing or scratching may force fibres into the skin. Get medical attention immediately if the irritation persists.
Eye contact	In case of contact with the product or the cured product dust or particulate, immediately flush eyes with large amounts of water for at least 15 minutes, keeping the eyelids open. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

General information	Filaments are mechanical irritants and may induce temporary mouth, nose and throat irritation. Skin or eye contact may cause itching and temporary irritation. Ingestion may cause temporary mechanical irritation of the digestive tract. Pre-existing conditions such as respiratory or skin disorders may be aggravated by exposure to the product or dust/particulate generated from machining/grinding of the cured product.
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SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards	Carbon fibers contained in some products are electrically conductive and if released during combustion may present a hazard to unprotected electrical apparatus.
Hazardous combustion products	Above 650°C, if incomplete combustion occurs and depending on air supply and temperature, there may be release of carbon monoxide and dioxide and products of low molecular weight.

Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing.
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Environmental precautions

Environmental precautions Due to the physical nature of this product, environmental release to drains and water courses is not possible.

Methods and material for containment and cleaning up

Methods for cleaning up Clean up material and put into a suitable container and dispose of properly (See Section 13).

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7 – HANDLING AND STORAGE

Usage precautions Handling : Avoid direct contact with product. Avoid inhalation of dust/fumes generated during processing operations. Dust produced from handling and machining product will contain fibrous material. Avoid inhalation and provide positive dust extraction and collection from cutting zone. Protect against fire and explosion by avoiding dust formation and ignition sources when machining cured product. Dust from products containing carbon fibre is electrically conductive.

Storage : Store containers, securely closed according to container label instructions.

Store away from food and food stuffs.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed and dry.

Specific end uses(s)

Specific end use(s) As this product is an article, this section is not applicable

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits

No exposure limits known for ingredient(s).

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	Wear a suitable dust mask

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Black colored fiber
Color	Black.
Odor	No characteristic odor.
Odor threshold	It is not relevant as there is no toxic effect.
pH	Not relevant due to the physical form of this product.
Melting point	Carbon fiber 6512 F / 3600 C°C
Initial boiling point and range	Not relevant due to the physical form of this product.
Flash point	Not relevant due to the physical form of this product.
Evaporation rate	Not relevant due to the physical form of this product.
Evaporation factor	Not relevant due to the physical form of this product.
Vapor pressure	Not relevant due to the physical form of this product.
Vapor density	Not relevant due to the physical form of this product.
Relative density	Not relevant due to the physical form of this product.
Solubility(ies)	Not relevant due to the physical form of this product.
Auto-ignition temperature	Not relevant due to the physical form of this product.
Explosive properties	Not classified as explosive but dust or airborne filaments could induce explosion in high voltage equipments by short circuit.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not occur under normal conditions of use.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	The products of combustion and decomposition depend on other materials present in the fire and the actual conditions of the fire. Burning will produce carbon and nitrogen oxides and other unidentified gases and vapors that may be toxic. Avoid inhalation.

SECTION 11 – TOXICOLOGY INFORMATION

Information on toxicological effects

Toxicological effects Continuous filament of carbon fiber with a filament diameter $> 4\mu\text{m}$ are not considered respirable. World Health Organization defines a respirable fiber as a fiber with a diameter (d) $< 3\mu\text{m}$, a length (l) $> 5\mu\text{m}$ and l/d ratio ≥ 3

Acute toxicity - oral

ATE oral (mg/kg)

Skin sensitization

Summary The products with sizes G, GP, GS, H and PC contain a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

Inhalation May cause irritation to the upper respiratory tract. Vapor or fumes generated from exposing this product to elevated temperatures may cause irritation to the respiratory tract. Dust or particulate from machining, grinding or sawing the cured product may cause irritation to the upper respiratory tract.

Ingestion None expected under normal conditions of use. Ingestion is not an expected route of industrial exposure.

Skin Contact Contact may cause mechanical irritation, skin redness, itching and drying of the skin. Prolonged or repeated contact may cause allergic skin reaction, dermatitis and possible sensitization.

Eye contact May cause mechanical irritation. Vapor or fumes generated from exposing the product to elevated temperatures may cause irritation. Dust or particulate from the product or from machining, grinding or sawing the product may cause mechanical irritation.

Medical considerations Preexisting eye, skin or respiratory disorders may be aggravated by contact and/or exposure to the product, the vapor or fumes generated from heating the product or to the dust or particulate from machining, grinding or sawing the cured product.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity No ecological data has been determined on the total product.

Toxicity Not regarded as dangerous for the environment.

Persistence and degradability

Persistence and degradability Not relevant due to the physical form of this product.

Bioaccumulative potential

Bio-Accumulative Potential Not relevant due to the physical form of this product.

Mobility in soil

Mobility Not relevant, due to the form of the product.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

General information

Materials for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

Disposal methods

Dispose of waste and residues in accordance with local authority requirements. For products containing carbon fiber, it is possible to recycle the carbon component

SECTION 14 – TRANSPORT INFORMATION

General

This Product is not dangerous to transport.

UN Number

UN No. (International)

This product is not dangerous to transport.

UN proper shipping name

Proper shipping name (International)

This product is not dangerous to transport.

Transport hazard class(es)

Transport Labels (International)

This product is not dangerous to transport.

Packing group

Packing group (International)

This product is not dangerous to transport.

Environmental hazards

Environmentally Hazardous Substance

This product is not dangerous to transport.

SECTION 15 - REGULATORY INFORMATION

National regulations

This Product is Not Hazardous under the OSHA Hazard Communication Standard.

European Union:

This product and its components are considered an Article with no intentional release in accordance with EC No. 1907/2006, REACH Regulation
This product does not contain Annex XIV substances subject to Authorisation according to Regulation (EC) No. 1907/2006 (REACH) or substances of very high concern published in accordance with Article 59(10) above 0.1 % (w/w).

US, EPA, TSCA: This product is an article as defined by TSCA and is not required to

be listed in the US, EPA, TSCA inventory.

US Federal Regulations

RCRA

RCRA Information: Currently, the product is not listed in the federal hazardous waste regulation 40 CFR, Part 261.33, paragraphs (E) or (F), ie. chemical products that are considered hazardous if they become waste. State or local hazardous waste regulations may also apply if they are different from the federal regulation. It is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

SECTION 16 – OTHER INFORMATION

Revision Date

04/26/2023

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.