



GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Part #3114 – Prepreg 4.3 OZ IM Unidirectional Carbon

FIBRE GLAST DEVELOPMENTS CORP.
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**FOR CHEMICAL EMERGENCY
CALL (800) 424-9300 24 HRS.**

RECOMMENDED USE: Standard Composite Manufacturing

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin corrosion/irritation : Category 2
Skin sensitization : Category 1
Serious eye damage : Category 1
Respiratory sensitization : Category 1

GHS Label Element

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements : P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P337+313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash it before reuse.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name		CAS No.	Weight %
UF3325 Resin ¹	*	~20-45	
Fiber Reinforcement ²	*		~80-55

*Ingredients and associated CAS numbers are proprietary/trade secrets.

¹ – The chemical composition is being withheld as trade secrets in accordance with 29 CFR 1910.1200(i) and 29 CFR 19190.1200 Appendix D. The chemical identities will be disclosed to health professionals in a medical emergency in accordance with 29 CFR 1910.1200 paragraph (i)(2). Non-emergency requests will be considered in accordance with 29 CFR 1910.1200 paragraph (i).

² – Reinforcement can be carbon, aramid, glass, basalt fibers in the form of tow, roving, woven fabric, unidirectional tape or braid.

SECTION 4 – FIRST AID MEASURES

Description of first aid measures:

Inhalation: Move person to fresh air.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: seek medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush with water for 15 minutes while holding eyelids open. Contact physician.

Ingestion: Rinse mouth. Do not induce vomiting. Contact doctor/physician.

Most important symptoms and effects, both acute and delayed:

Inhalation: May cause irritation to upper respiratory tract. May cause sensitization resulting in an allergic type reaction.

Eyes: Irritating to eyes by direct contact or vapor exposure.

Skin: May cause skin irritation. May cause skin sensitization resulting in allergic type symptoms/reaction.

Ingestion: May be harmful if swallowed. May cause nausea, vomiting and diarrhea.

Existing conditions which may be aggravated: Existing skin and respiratory conditions.

Indication of any immediate medical attention and special treatment needed: N/A

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: Halogenated agents, carbon dioxide, foam, and steam or water fog.

Special hazards: Phosphine, carbon monoxide, carbon dioxide, nitrogen oxides and other toxic products may be released during the fire.

Special protective equipment for firefighters: Wear protective clothing and personal protective equipment including self-contained breathing apparatus when fighting fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use appropriate personal protection equipment (PPE).

Environmental precautions:
The environmental risk of this material is limited by its form. Do not discharge into drains or watercourses. Avoid release to environment.

Methods for containment and cleaning up:
For containment: Due to the form of the material is not necessary.
For clean up: Collect and dispose of waste material according to environmental regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:
Do not handle until all safety precautions have been read and understood. Wear skin and eye protection when handling material. Provide adequate ventilation. Follow good personal hygiene practices such as washing hands and face after handling material. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities:
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: direct sunlight, heat sources. Keep containers closed when not in use.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:
Occupational exposure limits: Not Available
Biological exposure limits: Not Available

Appropriate Engineering Controls: Use general or local exhaust ventilation to minimize inhalation potential.

Individual Protective Measures:
Protective Clothing: Wear protective clothing as needed to avoid skin contact. Protective clothing should be laundered separately from personal clothing. Access to an eyewash or eyewash shower facility is recommended.
Eye/Face protection: Safety glasses with side shields should be worn for all industrial operations.
Skin protection: Wear gloves that are impermeable and resistant to this product. Gloves made of latex, polyvinyl chloride or similar materials are adequate under typical processing conditions.
Respiratory protection: Wear appropriate respiratory protection in the absence of adequate ventilation.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Material is slightly tacky. Color is dominated by the reinforcement fiber.
Odor	: No distinctive odor.
Odor threshold	: Not Available
pH	: Not Available
Melting point/ freezing point	: Not Available
Initial boiling point/ boiling range	: Not Available
Flash point	: Not Available
Evaporation rate	: Not Available
Flammability (solid, gas)	: Not Available
Upper/lower flammability or explosive limits:	: Not Available
Vapor pressure	: Not Available
Vapor density	: Not Available
Relative density	: Not Available
Solubility(ies)	: Prepreg resin is soluble in Methyl Ethyl Ketone, Acetone, Chloroform
Partition coefficient: n-octanol/water	: Not Available
Auto-ignition temperature	: Not Available
Viscosity	: Not Available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Stable at room temperature.

Chemical Stability: Stable at room temperature.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Uncontrolled heating above 74 °C. Direct sunlight.

Incompatible materials: Incompatible with bases, strong oxidizers, acids, amines, mercaptans, and excessive heat.

Hazardous decomposition products: Incomplete burning can produce phosphine, carbon monoxide, carbon dioxide, oxides of nitrogen and other harmful products.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely routes of exposure: Skin contact

Symptoms related to physical, chemical, and toxicological characteristics:

Symptoms/injuries after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Causes eye irritation.

Symptoms/injuries after ingestion: May be harmful if swallowed. May cause nausea, vomiting, and diarrhea.

Delayed/immediate/chronic effects from long term and short exposure

Numerical measures of toxicity:

Acute toxicity	: Not classified
Skin corrosion/irritation	: No data available
Serious eye damage/Irritation	: No data available
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Specific target organ toxicity (single exposure)	: No data available
Specific target organ toxicity (repeated exposure)	: No data available
Aspiration hazard	: No data available

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: The environmental risk of this material is limited by its form. Specific ecological data is not available. Do not discharge into drains or watercourses. Avoid ground contamination.

Persistence and degradability: Not Available

Bio-accumulative potential: Not Available

Mobility in soil: Not Available

Other adverse effects: Avoid release to the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal recommendation: Waste material may generally be disposed of in a designated landfill unless directed otherwise by local or national regulations. If under local or national regulations preregs are defined as hazardous waste, they may be disposed of by incineration in an enclosed controlled facility to prevent generation of airborne fibers.

Ecology – waste materials: Waste material may generally be disposed of in a designated landfill unless directed otherwise by local or national regulations.

SECTION 14 – TRANSPORT INFORMATION

Prepregs are not regulated for transportation and require no special precautions for users.

SECTION 15 – REGULATORY INFORMATION

US TSCA: All components listed

EU EINECS: All components listed

US TSCA 12(b) Components: None

EPA SARA Title III Section 313 Components above 'de minimus level: None

SECTION 16 – OTHER INFORMATION

For industrial use only. To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and must be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of the suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely.

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.