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**FOR CHEMICAL EMERGENCY
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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PART #3101 Prepreg 3K 2x2 Twill Weave Carbon

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS#	Percent	PEL (TWA)	STEL	TLV
Epoxy resin 1	*	*	NE	NE	NE
Prepreg material 2	*	*	NE	NE	NE

NE: Not established.
* CAS #s and percentage are Proprietary/trade secret.
1 The chemical identities of this composition are being withheld as trade secrets in accordance with 29 CRF 1910.1200(i) and 29 CFR 1910.1200 Appendix D. The chemical identities will be disclosed to health professionals in a medical emergency in accordance with 29 CFR 1910.1200 paragraph (i). Non-emergency requests will be considered in accordance with 29 CFR 1910.1200 paragraph (i).
2 Prepreg material can be in the following forms: Tow, Roving, 0-90 Degree Woven Cloth, and Unidirectional cloth, and other broad goods.

SECTION 3 – HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW

Exposure Limits: A Threshold Limit Value (TLV) or Permissible Exposure Limit (PEL) is not established for this formulation.

Effects of Exposure: The prepreg material is a low exposure risk under normal operating conditions. Exposed persons (from inhalation) may become sensitized, including an allergic reaction. Causes mild irritation to the eyes. Causes skin irritation. May sensitize individuals, causing allergic symptoms. Ingestion has no known effects.

Existing conditions that may be aggravated: see above.

SECTION 4 – FIRST AID MEASURES

Inhalation: If any adverse symptoms appear move person to fresh air. If necessary administer artificial respiration or oxygen and contact a physician.

Eyes: Flush eyes immediately with water for at least 15 minutes. Contact a physician.

Skin: Wash skin with soap and water. Contact a physician if symptoms develop/persist.

Ingestion: If ingested, contact a physician.

SECTION 5 – FIRE FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES: Protective clothing and (**self-contained breathing apparatus**) should always be used when fighting chemical fires. Caution: Open incineration may release highly conductive carbon fibers which present electrical short circuit hazards.

EXTINGUISHING MEDIA: Halogenated agents, foam, steam, or water fog.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Phosphine, CO, CO₂, NO_x, and other toxic products may be released during fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Precautions if Container is Damaged: Rolls of prepreg material should be handled with impervious gloves if package is damaged.

SECTION 7 – HANDLING AND STORAGE

Store at warehouse ambient temperature in sealed plastic wrap.

SECTION 8 – EXPOSURE CONTROLS - PERSONAL PROTECTION

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to limit vapor inhalation

Respiratory Protection: An organic vapor respirator may be necessary in the absence of adequate ventilation. Engineering controls should be implemented to reduce exposure.
Protective Gloves: Impervious gloves are recommended for handling the product.
Eye Protection: Safety glasses should be worn for all industrial operations.
Personal Protective Clothing: Personal protective clothing (i.e., smocks, coveralls, etc.) should be worn. **NOTE:** Protective clothing should be laundered separately from street clothes.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY (H₂O = 1): 1.3 – 2.2

SOLUBILITY IN WATER: Slight

VAPOR PRESSURE: N/A

EVAPORATION RATE: N/A

MELTING POINT: N/A

BOILING POINT: N/A

APPEARANCE AND COLOR: The material is slightly tacky with an appearance dominated by a reinforcement fiber. For example, each type of reinforcement fiber may have one of the following characteristics: (1) Graphite fiber prepreg is black color, (2) Glass fiber prepreg is a cream color, and (3) Aramid fiber prepreg is a yellow color. Traces of methylcyclopentadiene dimer CAS# 26472-00-4 and dicyclopentadiene CAS# 77-73-6 have been detected.

DETECTION METHODS: None

pH: Not applicable.

FLASHPOINT: >200°F.

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable at room temperature, thermosets at elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID): Incompatible with bases, strong oxidizers, acids, amines, and excessive heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete burning can produce phosphine, carbon monoxide, carbon dioxide, oxides of nitrogen, and other harmful products.

HAZARDOUS POLYMERIZATION: Will not occur.

OTHER HAZARDS: Not known.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: Causes skin and eye irritation. May cause respiratory tract sensitization.

CHRONIC EFFECTS: May induce asthmatic or allergic reaction from prior exposure sensitization.

TARGET ORGAN(S): Unknown.

SECTION 12 – ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations. Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances.

SECTION 14 – TRANSPORTATION INFORMATION

Prepregs do not meet any of the DOT definitions of Classes 1-9, ORM-D and elevated temperature materials. Therefore, this material is not regulated by the Hazardous Materials regulations of the United States Department of Transportation.

SECTION 15 – REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA) All original components of this Prepreg are registered on the Toxic Control Act Inventory. Any new chemicals that may form during the manufacture of this Prepreg are exempt from Inventory reporting under 40 CFR 720.30(h) as they are incorporated into an article.

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. User of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely.

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SECTION 17 - 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.