



GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Kevlar® Tape - #531 (1"), #532 (2"), #533 (3"), #2482 (4"), #2495 (6")

FIBRE GLAST DEVELOPMENTS CORP.
385 CARR DRIVE
BROOKVILLE, OH 45309

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**FOR CHEMICAL EMERGENCY
CALL (801) 629-0667 24 HRS.**

OTHER INDUSTRY NAMES: Kevlar® Aramid or Kevlar® Brand Fabric

RECOMMENDED USE: Standard Composite Manufacturing

SECTION 2 – HAZARDS IDENTIFICATION

Product Hazard Category

Combustible dust.

GHS Label Element

Hazard pictograms : Not required

Signal word : Warning

Hazard warnings : May form combustible dust concentrations in the air.

Hazardous Prevention measures : not required

Other Hazards

The hazards of this product are associated mainly with its processing., If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Wt. %
• Para-aramid fiber	26125-61-1	>85%

SECTION 4 – FIRST AID MEASURES

General advice	: No hazards which require special first aid measures. If symptoms persist, call a physician. If irritation occurs, flush area thoroughly with water.
Inhalation	: No applicable data available.
Skin contact	: No applicable data available.
Eye contact	: No applicable data available.
Ingestion	: No applicable data available.
Most important symptoms /effects, acute and delayed	: No applicable data available.
Protection of first-aiders	: No applicable data available.
Notes to physician	: No applicable data available.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to the local circumstances and the surrounding environment.
Unsuitable extinguishing media	: No applicable data available.
Specific hazards	: Hazardous decomposition products formed under fire conditions.
Special protective equipment For Firefighters	: wear self-contained breathing apparatus for fire-fighting if necessary.
Further information	: No applicable data available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel)	: None.
Environmental precautions	: Do not let product enter drains.
Spill Cleanup	: Avoid dust formation. Clean up dusts and fibres with high efficiency particulate air (HEPA) filtered vacuum equipment, or by wetcleaning.
Accidental Release Measures	: No applicable data available.

SECTION 7 – HANDLING AND STORAGE

HANDLING (PERSONNEL)	: Avoid dust formation. Exposure to fibre fly, dust and decomposition products of spinfinishes should be avoided by ventilation and/or vacuum cleaning. High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing. Continual rubbing of fibre particulates and dust on the skin can cause a transitory, mild irritation with redness or itching. Do not touch moving threadlines. Entanglement with this fibre can severely cut or even sever fingers. Avoid breathing dust.
Handling (Physical Aspects)	: No applicable data available.
Dust explosion class	: No applicable data available.
Storage	: Keep away from direct sunlight.
Storage period	: No applicable data available.
Storage Temperature	: No applicable data available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS : Ensure adequate ventilation. Recirculated air should be filtered to remove respirable dust. Provide for appropriate exhaust ventilation and dust collection at machinery. Static charges can cause explosions in solvent and dust laden atmospheres. Provide grounding of equipment to prevent static build-up.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATION PROTECTION : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye Protection: : Safety glasses with side-shields

EXPOSURE GUIDELINES

Component	Exposure Guidelines			
	OSHA	ACGIH	DuPont	AIHA
	PEL	TLV	AEL*	WEEL
Para-aramid	None established	None established	2 fibrils/cc – 8 hr. TWA, respirable fibrils** 5mg/m ³ , total dust	5mg/m ³ 8 hr. TWA total dust (non-respirable fibers and non-fibrous particles)
*AEL is DuPont’s Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits lower than the AEL are in effect, such limits shall take precedence. **Respirable fibrils are particles <3µm dia., 5-60µm long, with aspect ratios >3.				

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	: solid
Form	: Nonwoven fabric, woven fabric, fibres, yarn
Color	: various
Odor	: odourless
Odor threshold	: No applicable data available.
pH	: No applicable data available.
Melting point/freezing point	: Melting point/range Not applicable
Boiling point/boiling range	: Boiling point/boiling range Not applicable
Flash point	: Not applicable.
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: may form combustible dust concentrations in air.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.
Specific gravity (Relative Density)	: 1.44 – 1.45 at 20 °C (68 °F)
Water solubility	: insoluble
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Ignition temperature	: Does not ignite.
Decomposition temperature	: >300 °C
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity : No applicable data available.

Chemical stability : No applicable data available.
Possibility of hazardous reactions : No applicable data available.
Conditions to avoid : No applicable data available.
Incompatible materials : Strong acids and strong bases

Hazardous decomposition Products : Hazardous thermal decomposition products:: Carbon dioxide Nitrogen oxides (NOx) , Hydrogen cyanide (gaseous) , Ammonia, anhydrous Aldehydes, Hydrocarbons

SECTION 11 – TOXICOLOGICAL INFORMATION

KEVLAR® Para-aramid Sensitisation properties. : Patch test on human volunteers did not demonstrate sensitisation properties.

Para-aramid fiber Inhalation : Rat An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Dermal : The substance is a polymer and is not expected to produce toxic effects.

Oral LD50 : > 7,500 mg/kg , Rat

Skin irritation : No skin irritation, Guinea pig

Repeated dose toxicity : Inhalation Rat - Respiratory irritation

Carcinogenicity : Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Carcinogenicity
The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12 – ECOLOGICAL INFORMATION

Additional ecological information : No data is available on the product itself.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Can be landfilled or incinerated, when in compliance with local regulations. Do not flush into surface water or sanitary sewer system.

Contaminated packaging : No applicable data available

SECTION 14 – TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15 – REGULATORY INFORMATION

TSCA (US) Status : On the inventory, or in compliance with the inventory
SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : This product contains a chemical that is at or below California Propositions 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the MSDS or label

SECTION 16 – OTHER INFORMATION

Revision Date
August 30, 2019

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.