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**FOR CHEMICAL EMERGENCY
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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PART #544 – Kevlar® Pulp

SYNONYM: Kevlar® Aramid Pulp

SECTION 2– HAZARDS IDENTIFICATION

Emergency Overview

The hazards of this product are associated mainly with its processing. Processing para-aramid products can release respirable dust and respirable fibre particulate. Dust may form explosive mixture in air. Prolonged inhalation of respirable dust and respirable fibre particulate at high concentrations can cause lung damage. High concentrations of dust can irritate eyes, nose and respiratory system and causes coughing and sneezing. Continual rubbing of fibre particulates and dust on the skin can cause a transitory, mild irritation with redness or itching.

Potential Health Effects

Carcinogenicity

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 3– COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Concentration
Para-aramid fiber	26125-61-1	100%

Exposure limits may be applicable for the following:	CAS-No
Para-aramid fiber	26125-61-1

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.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: Not Applicable

Thermal decomposition: >300°C (>572°F)

Fire and Explosion Hazard: Hazardous decomposition products formed under fire conditions.

Extinguishing Media: Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.

Fire Fighting Instructions: Wear self-contained breathing apparatus for fire fighting if necessary.

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

Spill Cleanup: Avoid dust formation. Clean up dusts and fibres with high efficiency particulate air (HEPA) filtered vacuum equipment, or by wet cleaning.

Accidental Release Measures: Do not let product enter drains.

SECTION 7 – HANDLING AND STORAGE

Handling (Personnel): Avoid dust formation. Exposure to fibre fly, dust and decomposition products of spin finishes should be avoided by ventilation and/or vacuum cleaning. Do not touch moving threadlines. Entanglement with this fibre can severely cut or even sever fingers. Avoid breathing dust.

Storage: Keep away from direct sunlight.

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

Eye Protection: Safety glasses with side-shields.

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

Exposure Guidelines Exposure Limit Values

Para-aramid			
AEL* (DUPONT)	2 fibers/cm3	8 & 12 hr. TWA	Respirable fibres
AEL* (DUPONT)	5 mg/m3	8 & 12 hr. TWA	Non-fibrous particulate and/or non-respirable fibres

AEL* is DuPont's Acceptable Exposure Limits. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Nonwoven fabric, woven fabric, fibres, yarn
Color:	Gold
Odor:	odorless
Melting Point:	not applicable
Boiling point/boiling range:	not applicable
Specific gravity:	1.44-1.45 at 20°C (68°F)
Water solubility:	insoluble

SECTION 10 – STABILITY AND REACTIVITY

Incompatibility:	Strong acids and strong bases
Decomposition:	Decomposition temperature > 300°C (>572°F). Hazardous thermal decomposition products. Carbon dioxide, nitrogen oxides (NO _x), Hydrogen cyanide (gaseous), Ammonia, Aldehydes, Hydrocarbons.

SECTION 11 – TOXICOLOGICAL INFORMATION

Kevlar® Para-aramid

Skin sensitization: Patch test on human volunteers did not demonstrate sensitization properties.

Para-aramid

Oral ALD: >7,500 mg/kg, rat

Skin irritation: Species: rabbit, no skin irritation, non-irritant

Eye irritation: non-irritant

Repeated dose toxicity: inhalation, rat; lung effects

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic Toxicity

Para-aramid: This product has no known eco-toxicological effects.

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

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Can be land filled or incinerated, when in compliance with local regulations. Do not flush into surface water or sanitary sewer system.

SECTION 14 – TRANSPORTATION INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15 – REGULATORY INFORMATION

TSCA Status: Listed or compliant.

SARA 313 Regulated Chemical(s): SARA 313: 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: Chemicals known to the State of California to cause cancer, birth defects or any other harm: non known.

SECTION 16 - 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.