

Safety Data Sheet

Section 1: Identification

Product Identification: **22 oz. PBI**

Manufacturers Identification:

John Tillman Co.
1300 W. Artesia Blvd.
Compton, CA 90220
800-255-5480

22 oz. PBI is a John Tillman Co. heat resistant synthetic textile made from a blend of para-aramid, meta-aramid, and Kynol fibers wrapped around a fiberglass core. The suggested applications of this product include safety clothing, gloves, mitts, jackets, curtains and other industrial uses.

Emergency Number: 800-255-5480

Last revised: 9/22/2014

Section 2: Hazard Identification

Hazard: Irritant

Component	Wt%	CAS No.	ACGIH TLV (8hr TWA)	OSHA PEL (8hr TWA)
Fiberglass		65997-17-3		
Nonrespirable	>98%		5mg/m ³	15mg/m ³ total dust
Respirable	<1%		3mg/m ³ , PNOC	5mg/m ³ , respirable
Respirable particulate with fiber like dimensions (glass shards)	<0.002%		NE	1 fiber/cc; aspect Ratio >5:1

The fiberglass core is considered nonrespirable fibre. This means that it cannot reach deep lungs because the particles are larger than 3.5 micrometers

Acute exposure:

Although the textile itself is not considered toxic or hazardous- dust from cutting and application may cause irritation to the respiratory tract and cause symptoms similar to bronchitis. The product has a very low order of acute toxicity and ingestion is not expected to cause any harm.

Primary Routes of Exposure: eye contact, skin contact and inhalation may cause temporary irritation.

N,N-dimethylacetamide (DMAc) 127-19-5 <2 10 ppm, Skin 10 ppm, Skin

Meta-Aramid polymer contains about 1% of DMAc. Processing and handling of this product has the potential to release DMAc and result in exposure through skin absorption and inhalation. Minimal absorption occurs from handling the fiber at room temperature, absorption is maximized if processing the fabric in conditions greater than 200 °C. Use proper ventilation. Excessive over exposure can cause liver, kidney, and retinal damage and eye and skin irritation. Due to the percentage of meta-aramid polymer used in this product chances of harmful exposure are extremely small and don't pose a substantial threat but it is still important to note.

Section 3: Composition and Information on Ingredients

<i>Ingredients</i>	<i>% w/w</i>	<i>CAS #</i>
Fiberglass	45-55%	65997-17-3
Poly(terephthaloylchloride/p-phenylenediamine) (<i>para-aramid polymer</i>)	20-30%	26125-61-1
Poly-(isophthaloylchloride/m-phenylenediamine) (<i>meta-aramid polymer</i>)	15-25%	25765-47-3
Cross-linked Phenolic Resin	1-4%	9003-35-4
N,N-dimethylacetamide (DMAc)	<1%	127-19-5

The finish is a mixture that is considered a wear resistant finish. The specific formula is considered proprietary but each ingredient is considered non-toxic according to other manufactures' MSDS.

Section 4: First-Aid Measures

Inhalation: If irritation occurs, move to fresh air

Skin Contact: If irritation occurs, wash with water and mild soap

Eye Contact: If irritation occurs, gently rinse the affected area with clean water for at least fifteen minutes

Ingestion: Not a probable route. However, in case of gastro-intestinal ingestion, rinse mouth with water and seek medical attention

If in any case irritation persists please seek medical assistance.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: dry chemical powder, foam, fog, carbon dioxide. Do not use direct water spray especially if fire began as an electrical fire.

Specific Hazards: not explosive. The product itself will not burn but its packaging may.

Flash point: n/a

Auto Ignition temp: n/a

Flammability limits: n/a

Special Protective Equipment: Self-containing breathing apparatus, protective clothing, gloves and a helmet.

Section 6: Accidental Release Measures

Personal Precaution: Do not breathe in fiber dust; use a respirator if there is a lot of dust.

Methods and Materials for Containment: Scoop up dust and fibre mechanically, ideally with a vacuum cleaner to avoid spreading it into the air. Also, avoid dust and fibre spillage into drains and sewers.

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Wear suitable protective gear when cutting and working with the material. For large rolls use appropriate mechanical devices. Avoid breathing in dust. Handle in accordance with good industrial hygiene and safety practices.

Conditions for Safe Storage: Store in a cool, dry, well ventilated location

Section 8: Exposure Controls/ Personal Protection

Exposure Controls:

Component	Wt%	CAS No.	ACGIH TLV (8hr TWA)	OSHA PEL (8hr TWA)
Fiberglass		65997-17-3		
Nonrespirable	>98%		5mg/m ³	15mg/m ³ total dust
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Respirable particulate with fiber like dimensions (glass shards)	<0.002%		NE	1 fiber/cc; aspect Ratio >5:1
DMAc				PEL (OSHA) : 10ppm 35 mg/m ³ , 8hr. TWA, Skin. TVL(ACGIH) : 10ppm 36 mg/m ³ , 8hr. TWA, Skin, A4

Only process with adequate ventilation, and do not consume food, drink or tobacco in areas where they may become contaminated with this material.

Appropriate Engineering Controls: Ventilation- local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Individual Protection Measures: The following precautions are advisable during cutting and fabrication or other operations that could generate dust while using this material.

If the level of dust in the air exceeds occupational exposure limits regulated under OSHA regulations 29 CFR 190.134 use properly fitted NIOSH/MHSA approved dust respirator.

Eye protection: Safety glasses, goggles, or face shields, as necessary.

Protective clothing: wear loose fitting long sleeve shirt and pants to protect areas from exposure to dust. The use of barrier creams can, in some instances, be helpful.

Section 9: Physical and Chemical Properties

Appearance: Herringbone twill yellow

Odor: none

Odor Threshold: n/a

pH: n/a

Melting/ Freezing Point: n/a

Initial Boiling Point: n/a

Flash Point: n/a

Evaporation: n/a

Flammability: none flammable

Upper/Lower Flammability: n/a

Vapor Pressure: n/a

Vapor Density: n/a

Relative Density: n/a

Solubility: insoluble in water

Partition coefficient: n/a

Auto-ignition Temp: n/a

Decomposition Temp: 300°C (572°F)

Viscosity: n/a

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reaction: none reasonably foreseeable

Conditions to Avoid: Relatively long exposure to strong UV light can cause darkening in color and adversely affect strength of the fiber.

Incompatible Materials: Strong bases or acids can cause chemical decomposition (hydrolysis) of the molecules if exposed for an extended period of time which can release harmful byproducts.

Hazardous Decomposition Products: Thermal decomposition starting at temperatures above 572°F (300°C) may release toxic or hazardous products such as carbon oxides, nitrogen oxides, sulfur oxides, organic compounds of low molecular weight and small amounts of hydrogen cyanide, ammonia, aldehydes, aliphatic hydrocarbons.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Exposure:

Inhalation: Acute LC₅₀ is unknown. Repeated inhalation of RFP can cause bronchitis like symptoms.

Skin: Dermal toxicity is unknown. Slight skin irritation has been observed in isolated cases. No chronic effects are known for this product.

Eyes: While this product has not been tested, it is expected that it would be minimally irritating to the eyes based on tests with similar products.

Ingestion: Oral LD₅₀ is not available for this product. There are no known chronic effects.

Acute Toxicity: n/a

Human health effects of overexposure to DMAc by inhalation or skin absorption may initially include nonspecific discomfort such as nausea, headache, and temporary confusion, loss of coordination, and loss of consciousness, and abnormal liver and kidney functions. Individuals with pre-existing diseases of the liver may have increased susceptibility to the toxicity of excessive exposure.

Note: The effects of DMAc cited in this MSDS are exposure dependant, and may not appear except at very significant exposures. Since DMAc exposure is not readily available at room temperature typical workplace exposure is well below levels at which these effects will occur.

IARC, NTP, ACGIH or OSHA does not classify this material as a carcinogen or suspect carcinogen.

Section 12: Ecological Information

Ecotoxicity: n/a

Persistence and Degradability: n/a

Bioaccumulative potential: n/a

Mobility in Soil: n/a

This product is not considered harmful to aquatic organisms nor to cause long-term adverse effects to the environment.

Section 13: Disposal Considerations

Disposal should be in accordance with relevant national and local regulations pertaining to the disposal of non-hazardous waste. Do not dump dust particles into sewers or anybody of water.

Section 14: Transport Information

UN Number: n/a

Shipping Information: Not regulated for transport.

All information and recommendations are presented in good faith and are believed to be correct but no warranty, expressed or implied is made. All materials should be handled with reasonable caution.