



Georgian Bay Reinforcement Fabrics

999 William Street, PO Box 459, Midland Ontario L4R 4L3

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MATERIAL SAFETY DATA SHEET

Section 1: Product and Preparation Information

Date: January 1, 2014
Product Name: T0110-0051-P
Synonyms: Glass and Polyester Fiber and Resin
Product Use: Fiberglass Textile Reinforcement
WHMIS Classification: Non-Regulated Manufactured Article

Manufacturer: Georgian Bay Reinforcement Fabrics
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Midland, Ontario
L4R 4L3
Telephone: 705-527-5404
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Section 2: Composition and Hazardous Ingredient Information

<u>Ingredient</u>	<u>CAS#</u>	<u>ACGIH TLV</u> (8-hr TWA)	<u>OSHA PEL</u> (8-hr TWA)
Polyethylene terephthalate	25038-59-9		
Trace impurities and additional material names not listed above may also appear in Section 15 toward the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.			
Fiber Glass Continuous Filament:			
- Nonrespirable fibers and particulate	65997-17-3	5 mg/m ³ ☒ (Inhalable fraction)	15 mg/m ³ ☒ (Total dust)
- Respirable particulate		3 mg/m ³ ☒ (PNOC*)	5 mg/m ³ ☒ (Respirable dust)
- Respirable particulate with fiber like-dimensions (glass shards)		1 fiber/cc aspect ratio >5:1	None Established

*PNOC = Particles not otherwise classified.

As manufactured continuous filament glass fibers are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

Section 3: Physical Data and Chemical Properties

Appearance:	Off-white solid or delustered fiber or clear to greenish resin
Physical state:	Solid
Molecular weight:	>30,000
Chemical formula:	(C10H8O4) x
Odor:	No specific odor.
Specific gravity	(water = 1.0): 1.3 - 1.4 g/cm ³
Solubility in water (weight %):	Insoluble
pH:	Not Applicable
Boiling Point:	Not Determined
Melting Point:	260°C
Vapour Pressure (mm Hg @ 20°C):	Not Applicable
Vapour Density (Air = 1):	Not Applicable
Evaporation Rate:	Not Applicable
% Volatiles:	Not Applicable
Viscosity:	Not Applicable
Flash Point:	Not Applicable
Specific Gravity (Water=1):	2.60
Freezing Point:	Not Applicable

Compared To: Not Applicable

Section 4: Fire or Explosion Hazard

Flash Point:	Not applicable
Flash Pint Method:	Not applicable
Flammability Limits (%):	Not applicable
Auto Ignition Temperature:	500°C (Layer Ignition Temperature)
Extinguishing Media:	All standard agents may be used; Water, Foam, Carbon Dioxide or Dry Chemical.
Unusual Fire and Explosion Hazards:	None Known
Fire Fighting Instructions:	Fire fighters should wear appropriate protective equipment including Self Contained Breathing Apparatus (SCBA) meeting NIOSH standards. Avoid excessive inhalation of smoke or potential thermal decomposition products.
Hazardous Combustion Products:	Primary combustion products are carbon monoxide, carbon dioxide and water. Other undetermined compounds could be released in small quantities.

Section 5: Stability and Reactivity Data

Stability:	Normally Stable
Incompatible Materials and Conditions to Avoid:	Tends to dissolve in caustic materials
Hazardous Decomposition Products:	Sizings or binders may decompose in a fire. See Section 4 of MSDS for Hazardous Combustion Products statement. Thermal decomposition products may include CO, ethylene glycol, aldehydes and other C, H and O

compounds varying in chemical structure and molecular weights.
Will not occur.

Hazardous Polymerization:

Section 6: Toxicological Properties (Health Hazards)

EMERGENCY OVERVIEW: Solid off-white or delustered yarn or fiber. Chips have clear to greenish tint.

Acute Effects: Not considered to cause irritant or allergic contact dermatitis based on testing results for skin irritation (rabbit), skin sensitization (guinea pig), and clinic evaluation using repeated insult patch test.

Inhalation: Fiber glass continuous filament is a mechanical irritant. Breathing dusts and fibers may cause short term irritation of the mouth, nose and throat. Thermal processing of fiber may generate fumes and vapors which may cause irritation to the nose and throat.

Skin: Skin contact with dust and fibers may cause itching and short term irritation.

Eyes: Eye contact with dust and fibers may cause short term mechanical irritation or damage.

Ingestion: Ingestion may cause short term mechanical irritation of the stomach and intestines. Observe individual, if symptoms develop, consult a physician. Not a probable route of exposure.

Chronic Effects: The International Agency for Research on Cancer (IARC) has classified Continuous Filament Fiber Glass under Group 3: Not Classifiable with respect to Human Carcinogenicity.
Polyethylene terephthalate - None known.

Section 7: Preventive Measures (Personal Protection)

Respiratory Protection: Where dust levels exceed the TLV, use an NIOSH/MSHA approved disposable dust respirator. Use respiratory protection in accordance with your company's respiratory protection program.

Ventilation: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Skin Protection: Loose fitting long sleeved shirt that covers to the base of the neck, long pants and gloves.

Eye Protection: Safety glasses.

Section 8: First Aid Measures

Inhalation: If processing vapor occurs and irritation develops, remove person to fresh air. Seek medical attention if discomfort persists.

Eye Contact: Flush eye with running water for at least 15 minutes. Seek medical attention if discomfort persists.

Skin Contact: Wash with mild soap and running water. Use a washcloth to help remove fibers. Do not rub or scratch affected areas. Seek medical attention if discomfort persists.

Ingestion: Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that intestinal blockage does not occur. Not a probable route of exposure
Advice to Physician: No specific advice. Treat symptomatically

Section 9: Release and Disposal Procedures

IN CASE OF SPILL OR OTHER RELEASE: (Always wear recommended personal protective equipment)
Sweep or vacuum and place in containers for disposal to an approved landfill or reuse.

Spills and release may have to be reported to Federal and/or local authorities.

Section 10: Handling and Storage

Normal Handling: (Always wear recommended personal protective equipment.)
No special handling requirements.

Storage recommendations:
No special storage requirements.

Section 11: Exposure controls/Personal protection

Engineering Controls:
Mechanical ventilation should be used during processing to remove any dusts, mists, or vapors which may be generated.

Personal protective equipment

Skin protection:
Protect against potential physical hazards such as contact with yarn moving at high speed, etc.

Eye protection:
Safety glasses are recommended during processing.

Respiratory protection:
None normally required. An approved dust respirator meeting 42 CFR Part 84 standards should be worn if dusty conditions exist.

Additional recommendations:
None required.

EXPOSURE GUIDELINES (Guidelines exist for the following ingredients.)

<u>Ingredient name</u>	<u>acgih tlv</u>	<u>osha pel</u>	<u>other limit</u>
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* No ingredients listed in this section *

* = Limit established by Performance Fibers, Inc.
** = Workplace Environmental Exposure Level (AIHA).
*** = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

Dust should be considered a nuisance dust:
ACGIH TLV: 10 mg/m³ total dust
OSHA PEL: 15 mg/m³ total dust; 5 mg/m³ respirable dust

Section 12: Ecological Information

No data available.

13. Disposal considerations

RCRA

Is the unused product a RCRA hazardous waste if discarded? No
If yes, the RCRA ID number is: Not applicable

Other disposal considerations: Dispose of as non-hazardous waste in accordance with local, state and federal regulations.

The information offered here is for the product as shipped. Use and/or alterations to the product, such as mixing with other materials, may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

Section 14: Transport Information

Proper Shipping Name: Material is non-regulated
TDG Hazard Classification: Primary – None Secondary - None
Us dot proper shipping name:
Us dot hazard class: Not regulated **RID/ADR/AND:** Not classified
Us dot id number: Not applicable **UN Classification:** Not classified
IATA: Not regulated
IMDG: Not regulated

15. Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Polymer is listed on the TSCA Inventory.

OTHER TSCA ISSUES: None

SARA TITLE III / CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>Ingredient Name</u>	<u>SARA/CERCLA RQ (lb.)</u>	<u>SARA EHS TPQ (lb.)</u>
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No ingredients listed in this section.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: No ingredients listed in this section.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals." CAS numbers and weight percents are found in Section 2.

<u>Ingredient Name</u>	<u>Comment</u>
No ingredients listed in this section	

State Right-To-Know

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>Ingredient Name</u>	<u>Weight %</u>	<u>Comment</u>
No ingredients listed in this section		

Additional Regulatory Information:

None.

WHMIS Classification (Canada):

Not a controlled product.

Foreign Inventory Status:

Australia (AICS): Yes	Japan (ENCS): Yes
Canada (DSL): Yes	Korea (KECI) Yes
China (IECSC): Yes	New Zealand Yes
Philippines (PICCS): Yes	

EU (EINECS/ELINCS/NLPL): Polyester fiber is not classified as a hazardous substance under EU regulations. The polymer is exempted from listing on EINECS.

16. Other Information

Other Information: Polyester fibers are coated with minor quantities of finish oils. Textile processes may volatilize portions of these finishes and produce visible misting in the workplace. Ventilation is recommended to minimize exposure to such finish mists which should not exceed a concentration of 5 mg/m³ (ACGIH TLV for mineral oil).