



Georgian Bay Reinforcement Fabrics

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MATERIAL SAFETY DATA SHEET

Section 1: Product and Preparation Information

Date: March 27, 2014
Product Name: B700-175-A02
Product Use: Basalt Glass Textile Reinforcement
WHMIS Classification: Non-Regulated Manufactured Article

Manufacturer: Georgian Bay Reinforcement Fabrics
999 William Street, P.O. Box 459
Midland, Ontario
L4R 4L3
Telephone: 705-527-5404
Fax: 705-527-0258

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)
Basalt Glass Continuous Filament: Behaves same as fiberglass			
- 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: Dark-olive colour
Physical state: Solid
Odor: No specific odor.
Solubility in water (weight %): Insoluble

Solubility in fat:	Insoluble
pH:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	approx. 1050 °C (softening point of basalt)
Vapour Pressure (mm Hg @ 20°C):	Not Applicable
Density , expressed as bulk density (20°C)	2.67 g/cm ³ (raw basalt)
Evaporation Rate:	Not Applicable
Compared To:	Not Applicable
% Volatiles:	Not Applicable
Viscosity:	Not Applicable
Specific Gravity (Water=1):	2.60
Freezing Point:	Not Applicable

Section 4: Fire or Explosion Hazard

Flash Point:	Not applicable
Flash Pint Method:	Not applicable
Flammability Limits (%):	The products are non-combustible
Auto Ignition Temperature:	NA
Extinguishing Media:	NA
Unusual Fire and Explosion Hazards:	NA
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:	NA

Section 5: Stability and Reactivity Data

Conditions to be avoided:	Humidity
Stability:	Stable
Incompatible Materials:	When handled as instructed, none known
Hazardous Decomposition Products:	NA
Hazardous Polymerization:	Will not occur.

Section 6: Toxicological Properties (Health Hazards)

Acute Toxicity, e.g. LD50	no data available
Specific symptoms of animal tests	no data available
Primary irritant/caustic action:	no data available
Sensitization:	no data available
Effects after repeated or prolonged exposure (sub-acute to chronic toxicity)	no data available
Carcinogenic risks:	no, 97/69/EC
Genotype and reproduction risks:	no data available

Practical experience

Classification specific information: no data available

Other: The fibers processed in our products are uniform and are not subject to EC Guideline 07/69/EC. Furthermore, our products are not considered carcinogenic according to EC Guideline 1999/45/EC and TRGS 220 (Germany). The basalt fibers processed in our products are produced according to a defined process and have a nominal diameter of 10-19 micron.

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: Move 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

Waste Disposal: Dispose of Fiberglass as dry garbage as per local, provincial/state and federal regulations.

Release (Spill/Leak): Use a vacuum cleaner to clean up glass fibers. Do not use an air hose.

Work and Hygienic Practices: Handle using good industrial hygiene and safety practices. Avoid unnecessary exposure by using adequate local exhaust ventilation. Remove material from the skin and eyes after contact. Remove material from clothing using vacuum equipment (never use compressed air). Always wash work clothes separately from other clothing. Wipe out the washer or sink to prevent loose glass fibers from getting on other clothing. Keep the work area clean of dusts and fibers released during processing or fabrication. Use vacuum equipment to clean up product. Avoid dry sweeping or using compressed air as these techniques re-suspend dusts and fibers into the air. Have access to safety showers and eye wash stations.

Section 10: Handling and Storage

Safe handling information including technical safe guarding:

Increased mechanical stress of the basalt roving may generate dust and airborne fibers, which may cause discomfort. At skin contact, skin irritations are possible. Availability of a local suction is advised. The general hygiene rules and measures applying for the handling of chemicals must be employed.

Fire and explosion related information:

The products are non-combustible.

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).

Section 12: Ecological Information

Elimination data (Persistence and degradability) no data available

Environmental behavior:

Mobility: no data available

Bio-accumulation potential: no data available
Eco-toxicological effects
Aqueous toxicity: no data available
Behavior in sewage plants: N/A

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>
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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

Further information: N/A = not applicable

Other Information: Basalt 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).