

## **SAFETY DATA SHEET**

### **Section 1: Product and Preparation Information**

Date: January 1st, 2023  
Product Name: Woven Roving  
R10, R11, R15, R18, R18B, R24, R24T  
Synonyms: None  
Product Use: Fiberglass 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: Hazards Identifications**

#### **Classification of the substance or mixture :**

##### **GHS Classification**

##### **Hazard class**

Skin irritation  
Eye irritation  
Acute toxicity

##### **Category**

Category 3  
Category 2B  
Category 5

#### **GHS label elements :**

##### **Signal word**

Warning

##### **Hazard statements**

H316- Causes mild skin irritation.  
H320- Causes eye irritation.  
H303-May be harmful if swallowed.  
H333-May be harmful if inhaled.

##### **Symbol**

No pictogram



**Precautionary statements**

**Prevention :** Wash skin thoroughly after handling  
Wear protective eye/face protection

**Response :** *IF ON SKIN:* rinse with soap and water. Make sure to refrain from rinsing with warm water since warm water will make the skin pores open to allow fiberglass to penetrate more deeply. If fiberglass penetrates the skin, use a wash cloth to help pull out the fiberglass.  
*IF IN EYE:* Immediately flush eyes with clean water for at least 15 minutes. If irritation persists, get medical help.  
*IF INHALATION OCCURS:* immediately remove the affected person to Fresh air. If irritation persists, get medical help.  
*IF INGESTION OCCURS:* watch the person for several days to make sure that gastrointestinal disturbance does not occur. Do not let the person vomit unless required by medical personnel.

**Other hazards :** Not available.

**Section 3: Composition and Hazardous Ingredient Information**

Ingredients of Products

Product Name	Glass %		Sizing %		Binder %		Water %		Total %
	Mean	Variant	Mean	Variant	Mean	Variant	Mean	Variant	
	CAS No. 65997-17-3		CAS No. 919-30-2		CAS No. 7631-86-3		CAS No. 7732-18-5		
Woven Roving	99.28	±0.58	0.62	±0.48	/		0.10	±0.10	100

**Section 4: First Aid Measures**

<b>General Information</b>	No specific measures required
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<b>After Excessive Inhalation</b>	Supply fresh air, consult a doctor in case of complaints once exposed to dusty environment
<b>After Skin Contact</b>	In case of exposure to dust and consequent irritation immediately wash under running water and soap and rinse thoroughly. Do not rub or scratch affected areas. If skin irritation continues, consult a doctor.
<b>After Eye Contact</b>	Once a dust particle enters eyes, rinse opened eye for several minutes under running water, keeping eyelids open and consult a doctor if necessary. Do not rub or scratch eyes
<b>After Swallowing</b>	Normally, ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that gastrointestinal disturbance does not occur. Do not let the person vomit unless required by medical personnel. If disturbance persists, seek medical advice.

#### **Section 5: Fire Fighting Measures**

In case of fire, glass yarns are not flammable, are incombustible, and don't support combustion.

Only the packaging (plastic film, paper, cardboard, wood) and the small amounts of size are combustible and could release small quantities of hazardous gases.

**Suitable extinguishing agents:** CO<sub>2</sub>, powder, or water spray. Fight larger fires with water spray or alcohol-resistant foam.

**Protective equipment:** Mouth respiratory protective devices.  
Do not inhale explosion gases or combustion gases.  
Wear a fully protective suit.

#### **Section 6: Accidental Release Measures**

**Personal protection:**

Just in case of dusty environment avoid contact with the skin and the eyes. See section 8 for other instructions.

**Environmental protection:**

No special measures required – all sorts of glass wastes are considered as **Common Industrial Wastes**, or even **Inert Industrial Wastes**.

**Cleaning:**

Vacuum clean, sweep or shovel into containers normally used for glass waste (selective collection).

**Section 7: Handling & Storage**

**Handling:**

It is preferable to avoid prolonged contact with the skin: wear the protective equipment as indicated in chapter 8.  
Prevent and minimize dust formation during the processing of the products. Provide local exhaust ventilation if dust is formed on the processing machinery.  
Ensure that suitable extractors are available on processing machines.

**Storage:**

Technical measures: Respect the stacking procedure recommended for each type of product.  
Storage conditions: Store away from excessive humidity to prevent damage to the product and to the packing materials which could lead to storage safety problems. Store in a good, ventilated area and keep away from direct sunbeam.

**Section 8: Exposure Control – Personal Protection**

**Highest Permissible Concentration:**

National and international hygiene standards are as follows:

Component	Permissible Exposure Limit of OSHA (8 hr average weight)	Permissible Exposure Limit of ACGIH (8 hr Average Weight)
Total Dust	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Respirable particulates	5 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Respirable Fiber	/	1 fibre/ml

**Ingredients with limit values that require monitoring at the workplace:**

Continuous glass filaments are not respirable however certain mechanical processes might generate airborne dust or filaments (see chapter 11).

**Engineering controls:**

Provide local exhaust and/or general ventilation system to maintain low exposure levels.

**Personal protective equipment:**

*Respiratory protection:*

During operations releasing high quantities of dust, wear minimum FPI or preferably FP2 EEC approved dust masks.

*Protection of hands and other exposed parts of the body:*

Protective gloves for the hands, long-sleeved shirts and long pants to prevent irritation. People with delicate skin should apply barrier cream to exposed skin areas.

*Eye protection: safety goggles (or masks) or safety glasses.*

**Section 9: Physical and Chemical Properties**

**Glass & Polyester**

Physical State	Solid
Form	Woven fiberglass
Colour	White or off-white
Odour	None
Softening Point	Approx. 850°C
Melting Temperature	Not applicable
Decomposition Temperature	Sizing on product starts to decompose at 200°C

Flash Point	None
Explosive Properties	None
Density (molten glass)	2,6g/cm <sup>3</sup>
Solubility	Insoluble in water. Sizes can be partially (and even totally) dissolved in most organic solvents

### Section 10: Stability and Reactivity

#### **Chemical stability**

Stable in normal use and storage conditions, and in normally foreseeable usage conditions. As already identified, some substances may be released during hot processes or storage.

#### **Hazardous reactions**

Glass - No chemical hazardous reaction is foreseeable.

#### **Hazardous decomposition products**

Glass - Chapter 5 for hazardous decomposition products during fire.

### Section 11: Toxicological Information

#### **Acute toxicity:**

Not relevant

#### **Localised effects:**

Possible temporary irritation

This irritation is of a purely mechanical and temporary nature. It disappears when exposure is ended. It can affect the skin, the eyes, and the upper respiratory tracts. In Europe, mechanical irritation is not considered to be a health hazard within the terms of European directives 67/548/EEC for hazardous products.



This is confirmed by the fact that EC Directive 97/69/EC for mineral fibers does not stipulate the need to use a Xi (irritant) label nor a classification for continuous glass filaments.

**Sensitisation:**

Some allergies to continuous glass filaments have been declared.

**Long-term toxicity:**

Continuous glass filaments are not respirable according to the World Health Organisation (WHO) definition. Respirable fibers have a diameter (d) smaller than  $3\mu\text{m}$ , a length (l) larger than  $5\mu\text{m}$ , and a l/d ratio larger than or equal to 3. Fibers with diameters greater than  $3\mu\text{m}$ , which is the case for continuous filament glass fiber, do not reach the lower respiratory tract and therefore have no possibility of causing serious pulmonary disease.

**Regulatory situation:**

Following the IARC (International Agency for Research on Cancer) conclusion, **glass filaments are not classified as to their carcinogenicity**. They belong to the **Group 3 of IARC**. This classification has been confirmed by the IARC Working Group during his meeting of October 2001 and in the latest issue of the IARC monographs on the evaluation of carcinogenic risks to Humans volume 81 on man-made vitreous, published in 2002. The International Labour Office (ILO) and the CSIP (Chemical Safety International Program) came to the same conclusions in a congress held in 1987.

European Commission Directive 97/69/EC dated 5/12/97, the 23rd amendment to Directive 67/548/EEC which concerns classification, packing and labelling of hazardous substances did not think it necessary to include glass filaments as having carcinogenic risks.

OSHA (Occupational Safety and Health Administration) and NTP (U.S. National Toxicology Program), official American organisations, have not listed glass filaments products as hazardous substances and the ACGIH (American Conference of Governmental Industrial Hygienists) has classified them as A4 (not classified as carcinogenic for Man). They are not concerned by the Canadian Controlled Products regulations (CPR).

**Mutagenic risks:**

No known risks

## Section 12: Ecotoxicological Information

The products are not expected to cause harm to animals, plants or fish.

## Section 13: Disposal Consideration

Depending on local regulations, glass filament can either be considered as **inert waste** or as **common industrial waste**. As such they can be buried in landfills approved for these categories. Smaller quantities can be disposed of with household waste.

**Our products are not regarded as hazardous waste, as defined by EU directive 91/689/EEC.**

## Section 14: Transport Information

### **International regulations:**

Glass products are not considered as hazardous goods by transport regulations (IMDG, ADR/RID, ICAO/ IATA, DOT, TDG, MEX)

## Section 15: Regulatory Information

### **Glass**

Continuous glass filament products do not require hazardous product labelling (see Chapter 11).

Glass yarn products are articles and for this reason they have not to be listed in most of the countries, for instance in the list EINECS in Europe, ELINCS, TSCA for the USA, DSL and NDSL for Canada, CSCL for Japan, AICS for Australia, PICCS for Philippine, KECL for South Korea, etc.

## Section 16: Other Information





The information given by this document is based on the best knowledge at the date shown.

Furthermore, users' attention is drawn to the possible risks run when the product is used for any purpose other than the one for which it was designed.