



GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Part #492 - Mat Tape

FIBRE GLAST DEVELOPMENTS CORP.
385 CARR DRIVE
BROOKVILLE, OH 45309

TELEPHONE: (937) 833-5200
FAX: (937) 833-6555
**FOR CHEMICAL EMERGENCY
CALL (801) 629-0667 24 HRS.**

RECOMMENDED USE: Standard Composite Manufacturing

SECTION 2 – HAZARDS IDENTIFICATION

OSHA Regulatory Status

Continuous Filament Glass Fiber (CFGF) Products are articles
Articles which meet the definition of 29 CFR 1910.1200 (b)(6)(v) (a manufactured item other than a fluid or a particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has an end use function(s) dependant in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical (as determined in paragraph (d) of this section), and does not pose a physical hazard or health risk to employees) are not regulated by OSHA HazCom Standard

WHMIS Regulatory Status

Continuous Filament Glass Fiber (CFGF) Products are manufactured articles
Manufactured articles which meet the definition of the Canadian Hazardous Products Act (any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product) are not regulated by the Canadian Hazardous Products Regulation SOR/2015-17

Other Information

As manufactured continuous filament glass fibers are non-respirable. May cause temporary skin and mucous membranes itching due to mechanical abrasion effect of fibers. Under normal conditions of use, these products may release dust and non-respirable fibers (Particles Not Otherwise Regulated). Under severe process conditions (e.g. shredding, crushing), these products may release very small amount of respirable particulate, some of which may be fiber-like in terms of l/d ratio (so-called "shards").

See Section 8 for Exposure Limit Data.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CFGF products are made of glass which is given a specific shape (filament) and dimension (filament diameter). A surface treatment (sizing) is applied to the filaments which are gathered to form a strand. The strand is further processed into a specific product design according to the downstream use of the article. The sizing is a mixture of chemicals, i.e. coupling agent, film former and polymeric resin/emulsion. The sizing content is usually below 3%. For Chopped Strand Mat (CSM) and Continuous Filament Mat (CFM) products, a binder is applied in a secondary step to form the mat. The binder is a mixture of polymeric resin and surfactant. The content of sizing and binder is usually below 15% of the product weight

SECTION 4 – FIRST AID MEASURES

Eyes Contact	<ul style="list-style-type: none">• DO NOT rub or scratch eyes• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes• If eye irritation persists: Get medical advice/attention
Skin Contact	<ul style="list-style-type: none">• Wash off immediately with soap and plenty of cold water• DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers• DO NOT rub or scratch affected area• If skin irritation persists, call a physician
Inhalation	<ul style="list-style-type: none">• Move victim to fresh air• If symptoms persist, call a physician
Ingestion	<ul style="list-style-type: none">• Accidental ingestion of this material is unlikely• Rinse mouth with water and drink water to remove fibers from the throat• If symptoms persist, call a physician

SECTION 5 – FIRE-FIGHTING MEASURES

Flammable Properties	<ul style="list-style-type: none">• Continuous Filament Glass Fiber products are not flammable, are incombustible and do not support combustion. Only the Sizing is combustible and could release small quantities of undetermined hazardous substances in case of major and prolonged heat or fire
Suitable extinguishing media	<ul style="list-style-type: none">• Use CO₂, dry chemical, or foam• Water spray or fog
Protective equipment and precautions for firefighters	<ul style="list-style-type: none">• As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Avoid contact with eyes and skin
- Avoid creating dust
- Use personal protection recommended in Section 8

Methods for cleaning up

- Avoid dry sweeping
- Avoid creating dust
- Take up mechanically, placing in appropriate containers for disposal
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination
- After cleaning, flush away traces with water

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

- Avoid contact with skin, eyes or clothing
- Prevent and/or minimize dust formation

Storage Conditions

- Keep product in packaging until use to minimize potential dust generation

Incompatible materials

- None known.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

As manufactured continuous filament glass fibers are not respirable. Under normal conditions of use, these products may release dust and non-respirable fibers (Particles Not Otherwise Regulated}. Under severe process conditions (e.g. shredding, crushing), they may release very small amount of respirable particulate, some of which may be glass shards (see section 11).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL	Ontario TWA
Continuous filament glass fiber, non-respirable 65997-17-3	TWA: 1 fiber/cm ³ respirable fibers: length >5 µm, aspect ratio ≥3: 1, as determined by the membrane filter method at 400-450X magnification (4-mm objective], using phase-contrast illumination TWA: 5 mg/m ³ inhalable fraction	-	-	TWA: 1 fibre/cm ³ TWA: 5 mg/m ³

OSHA PEL: TWA for Inert or Nuisance Dust are 5 mg/m³ (Respirable fraction) and 15 mg/m³ (Total dust)

Ontario: TWA for Particles (Insoluble or Poorly soluble) Not Otherwise Specified (PNOS) are 3 mg/m³ (Respirable fraction) and 10 mg/m³ (Inhalable fraction)

Engineering Controls

Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits
Local exhaust ventilation should be provided at areas of cutting, milling or other similar processing to remove airborne dust and fibers

Individual protection measures, such as personal protective equipment

- Eye/face protection** • Wear safety glasses with side shields (or goggles)
- Skin and Body protection** • Wear protective gloves
• Wear long-sleeved shirt and long pants
- Respiratory protection** • If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
- General Hygiene Considerations** • Wash hands before breaks and immediately after handling products
• Remove and wash contaminated clothing before re-use
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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid – fiber with diameter larger than 6 microns
Appearance	Glass fiber yarns
Odor	Odorless
Color	White
Water solubility	Insoluble in water
Softening point	>800°C ; >1500°F
Density	2.6 (glass)

SECTION 10 –STABILITY AND REACTIVITY

Stability	: Stable under normal conditions
Possibility of Hazardous Reactions	: None under normal processing
Hazardous Decomposition Products	: None under normal use conditions Small quantities of undermined hazardous decomposition products may be released in case of heat exposure or during a fire

SECTION 11 – TOXICOLOGICAL INFORMATION

Product Information	: Continuous filament glass fibers are not respirable according to the World Health Organization (WHO) definition. Respirable fibers have a diameter (d) smaller than 3µm, a length (l) larger than 5µm and a l/d-ratio larger than or equal to 3. Fibers with diameters greater than 3 microns, 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. Continuous filament glass fibers do not possess cleavage planes which would allow them to
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split length-wise into fibers with smaller diameters, rather they break across the fiber, resulting in fibers which are of the same diameter as the original fiber with a shorter length and a small amount of dust. Microscopic examination of dust from highly chopped and pulverised glass demonstrated the presence of small amounts of respirable dust particles. Among these respirable particles, some were fiber-like in terms of 1/d ratio (so-called "shards"). It can be clearly observed however that they are not regular shaped fibers but irregular shaped particles with fiber-like dimensions. To the best of our knowledge, the exposure levels of these fiber-like dust particles measured at our manufacturing plants are of the order of magnitude between 50 to 1000 below existing applicable limits

ACGIH (American Conference of Governmental Industrial

Hygienists)

Continuous filament glass fibers are classified as A4- Not Classifiable as a Human Carcinogen.

ARC (International Agency for Research on Cancer)

The International Agency for Research on Cancer (IARC) in June, 1987, and in October, 2001 (see IARC Monographs on the Evaluation of Carcinogenic risks to humans - Man-made Vitreous Fibers -Volume 81), categorized continuous filament fiber glass as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament fiber glass as a confirmed, probable or even possible cancer causing material

NTP (National Toxicology Program)

Continuous filament glass fibers are not listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition)

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

SECTION 12 - ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name	: Not regulated
IATA Shipping Name	: Not regulated
Canadian Shipping Name	: Not regulated
IMDG Shipping Name	: Not regulated
ADR Shipping Name	: Not regulated

RID Shipping Name : Not regulated
ICAO Shipping Name : Not regulated
MEX Shipping Name : Not regulated

SECTION 15 – REGULATORY INFORMATION

International Inventories : Continuous filament glass fiber products are articles. Articles are exempted from registration or listing under chemicals inventories like TSCA (USA), DSL/NDSL (CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS)

California Proposition 65 : This product is not regulated under California Proposition 65

SECTION 16 – OTHER INFORMATION

Revision Date

August 28, 2019

Disclaimer: Reasonable care has been taken in the preparation of this information. This information is given in good faith and given herein is based on our experience of this material. However the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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