GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Part #329 – 1/16 Inch Milled Glass Fibers

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.

Section 2 – HAZARDS IDENTIFICATION

GHS Classifications: (per 29CFR1910.1200 App A)
- Skin Irritation (Category 2)
- Eye Irritation (Category 2B)
- SPECIFIC Target Organ Toxicity – Single Exposure (Category 3)

GHS Label Elements:
- Pictogram: 

Signal Word: Warning

Hazard Statements:
- H315 Causes skin irritation
- Causes eye irritation
- H335 May cause respiratory irritation

Precautionary Statements:
- P261 Avoid breathing dust
- P271 Use only outdoors or in a well-ventilated area
- P264 Wash hands and other affected areas thoroughly after handling.
- P280 Wear protective gloves, clothing and eye protection.
- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call POISON CENTER or physician if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P337 + P313 If skin or eye irritation occurs get medical attention.
- P362 Take off contaminated clothing and wash before reuse.
- P403 + P233 Store in well-ventilated place. Keep container tightly closed.
SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-17-13</td>
<td>Man Made Glass Fiber</td>
<td>&gt;99.2 %</td>
</tr>
<tr>
<td>None Assigned</td>
<td>Sizing</td>
<td>=/&lt; 0.8 %</td>
</tr>
</tbody>
</table>

Chemical Name or composition: Fibrous glass (composition consisting principally of oxides of silicon, calcium, aluminum, magnesium and boron fused in an amorphous vitreous state)

NFPA Unusual Hazards: None

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: glass wool fiber, fibrous glass and nuisance particulates.

Component Information/Information on Non-Hazardous Components

No additional information available.

SECTION 4 – FIRST AID MEASURES

**Inhalation**: If inhaled, move the affected person to fresh air. If irritation persists get medical attention.

**Skin Contact**: For skin contact, wash with mild soap and cold water. Never use compressed air to remove fibers from the skin. If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin.

**Eye Contact**: Immediately flush eyes with plenty of running water for at least 15 minutes. If irritation persists get medical attention.

**Ingestion**: Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention if irritation persists.

SECTION 5 – FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>None</th>
<th>Flash Point Method</th>
<th>Not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Flammability Limit</td>
<td>None</td>
<td>Lower Flammability Limit</td>
<td>None</td>
</tr>
<tr>
<td>Flammability Classification</td>
<td>Non-flammable</td>
<td>Extinguishing Media : Dry chemical, foam, carbon dioxide, and water fog.</td>
<td></td>
</tr>
</tbody>
</table>
Unusual Fire & Explosion Hazards: None known

Fire-Fighting Instructions: Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire.

Hazardous Combustion Products: Primary combustion products are carbon monoxide, hydrogen, carbon dioxide, ammonia and water. Other undetermined compounds could be released in small quantities.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures: This material will settle out of air. If concentrated on land, it can then be scooped up for disposal as non-hazardous waste. This material will sink and disperse along the bottom of waterways and ponds. It cannot easily be removed after it is waterborne; however, the material is non-hazardous in water.

Clean-Up Procedures: Scoop up material and put into a suitable container for disposal as a non-hazardous waste. Do not use compressed air for cleaning.


Special Procedures: None

SECTION 7 – HANDLING AND STORAGE

Handling Procedures: Keep product in its packaging, as long as practicable to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap materials. Wear PPE as described in Section 8.

Storage Procedures: No special procedures

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

A: General Product Information
B: Exposure Limits

Fiber Glass (crushed/shredded continuous filament) (65997-17-3)

<table>
<thead>
<tr>
<th>CAS # 65997-17-3</th>
<th>OSHA PEL 8 Hr TWA</th>
<th>ACGIH TLV (8-hr TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Respirable fiber and particulate</td>
<td>15 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Respirable particulate</td>
<td>5 mg/m³</td>
<td>None Established</td>
</tr>
</tbody>
</table>

Ventilation: There is a possibility of high particulate exposure levels when working with this product. At a minimum, local exhaust and/or general dilution ventilations should
be provided as necessary to maintain exposures below regulatory and recommended limits. Dust collection systems must be used in transferring operations, cutting or machining or other dust generating processes because of anticipated dust levels. Vacuum or wet-cleanup methods should be used.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: A properly fitted NIOSH approved N 95 series disposable dust respirator such as the 3M model 8210 (model 8271 in high humidity environments) or equivalent must be worn when using this material. Because of the possibility of high particulate levels occurring with this product, it may be necessary to use a half face respirator with P100 or HEPA filters during operations such as maintenance, clean up, or transferring. This decision should be made on a case-by-case basis depending on total exposures. Use respiratory protection in accordance with your company’s respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

Skin Protection: Normal work clothing (long sleeved shirts and long pants) is recommended. Use gloves. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers. Where direct contact or handling causes airborne product, the use of gloves and coveralls is recommended.

Eyes/Face Protective Equipment: Wear safety glasses, goggles or face shield.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>White to grey powder</th>
<th>Odor</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Solid</td>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor pressure (mm)hg@20c:</td>
<td>Not Applicable</td>
<td>Vapor Density Air = 1</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling point:</td>
<td>Not Applicable</td>
<td>Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Specific Gravity H2O = 1:</td>
<td>2.55 – 2.58</td>
<td>Freezing Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate (n-Butyl Acetate = 1):</td>
<td>Not Applicable</td>
<td>Melting Point</td>
<td>&gt; 800 C</td>
</tr>
<tr>
<td>VOC:</td>
<td>&lt; .04 %</td>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Physical Properties: Additional Information No additional information available

SECTION 10 – STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability:</th>
<th>This is a stable material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to Avoid:</td>
<td>None known.</td>
</tr>
<tr>
<td>Incompatible Materials:</td>
<td>None known.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>None, except in fire. See section 5 for combustion products statement.</td>
</tr>
<tr>
<td>Hazardous Polymerization:</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>
SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Effects:

**General Product Information**
Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. People with pre-existing respiratory conditions, may experience difficulty breathing, congestion and chest tightness.

Carcinogenicity:

**Fiber Glass Continuous Filament:**
The International Agency for Research on Cancer (IARC) in June 1987, categorized fiberglass continuous filament 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 fiberglass continuous filament as a possible, probable, or confirmed cancer-causing material. This conclusion was confirmed by IARC in October 2001.

The American Conference of Governmental Industrial Hygienists (ACGIH) A4 classification, not classifiable as a human carcinogen, for Respirable continuous filament glass fibers is based on inadequate data in terms of its carcinogenicity in humans and/or animals.

For Respirable continuous filament glass fibers, a TLV-TWA of 1 fiber/cc was adopted to protect workers against mechanical irritation. The TLV-TWA of 5 mg/m3 was adopted for non-respirable glass filament fiber, measured as inhalable dust, to prevent mechanical irritation of the upper respiratory tract.

**Note:** There are no known chronic health effects connected with long term use or contact with these products.

Products that are chopped, crushed or severely mechanically processed during manufacture or use may contain a very small amount of Respirable glass fiber-like fragments. Persistent Respirable glass fibers are suspected to cause cancer. NIOSH defines “Respirable fibers” as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of ≥ 5:1 (length-to-width ratio).

**Component Carcinogenicity**

**Fiber Glass (crushed/shredded continuous filament) (65997-17-3)**
ACGIH: A4 – Not classifiable as a human carcinogen. IARC: Group 3 "not classifiable as to its carcinogenicity to humans" June 1987 meeting.

SECTION 12 – ECOLOGICAL INFORMATION

No data available for this product. This product is not anticipated to harm animals, plants or fish.

SECTION 13 – DISPOSAL CONSIDERATIONS

EPA Waste Number & Descriptions
A: General Product Information
Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

B: Component Waste Numbers
No EPA Waste Numbers are applicable for this product’s components.

Disposal Instructions:
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

SECTION 14 – TRANSPORT INFORMATION

US DOT Information
Shipping Name: Not regulated for transport.
Hazard Class: None
UN/NA #: None
Packing Group: None
Required Label(s): None

TDG Information
Shipping Name: Not regulated for transport.
Hazard Class: None
UN/NA #: None
Packing Group: None
Required Label(s): None
Additional Info: None
Additional Transportation Regulations: No additional information available.

SECTION 15 – REGULATORY INFORMATION

A: General Product Information
No additional information available.

B: Component Analysis
No additional information available.

The following is provided to aide in the preparation of SARA 311 and 312 reports.

SARA 311/312
Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

C: Clean Air Act
The following components appear on the Clean Air Act-1990 Hazardous Air Pollutants List:
None

State Regulations:

A: General Product Information
No additional information available.
B: Component Analysis – State

The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiberglass (as continuous filament)</td>
<td>65997-17-3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Regulations:

A: General Product Information
No additional information available

B: Component Analysis – Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>DSL</th>
<th>New Zealand</th>
<th>Aus</th>
<th>Miti Japan</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Glass (continuous filament)</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Component Analysis – WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

None

WHMIS Status: Not controlled WHMIS

Classification: None

SECTION 16 – OTHER INFORMATION

Revision Date
August 29, 2019

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with Fibre Glast Developments Corporation or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.