SAFETY DATA SHEET

1. Product Identification

Product name
Microglass Milled Fiber Glass

SDS Number
905MILLGLASS-16

Product type
Filler for the plastics industry

Recommended use of the chemical and restrictions on use
Filler

Restrictions
None known.

Manufacturer/Supplier information

Company name
SYSTEM THREE RESINS, INC.

Address
8517 Commerce Place Dr NE
Lacey, WA 98516
United States

Telephone
1-253-333-8118

Website
www.systemthree.com

Email
support@systemthree.com

Emergency Contact
CHEMTEL (U.S. and CANADA) 1-800-704-9215
CHEMTEL (Outside the U.S.) – Call Collect accepted +1-360-256-7365

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word
WARNING
Skin Corrosion/Irritation – Category 2
Eye Damage/Irritation – Category 2B
Specific Target Organ Toxicity – Single Exposure – Category 3

GHS Label Elements
Hazard Pictograms

Hazard Statements/Classification of substance or mixture
H315 Causes skin irritation.
H320 Causes eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

Precautionary Statements
P261 Avoid breathing dust.

Prevention
P264 Wash hands and face thoroughly after handling.
P271 Use only outdoors or in a well ventilated area.
P280 Wear protective clothing and eye protection.

Response
P304+P340+P312 If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
3. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Content (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Man Made Glass Fiber</td>
<td>65997-17-3</td>
<td>&gt;99.9%</td>
</tr>
</tbody>
</table>

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

4. First-Aid Measures

Skin contact: Wash with 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.

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

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: None known.

Specific treatments: Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media: Carbon dioxide, dry chemical, foam, water fog.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: Primary combustion products are carbon monoxide, hydrogen, carbon dioxide, ammonia and water. Other undetermined compounds could be released in small quantities.

Hazardous decomposition products: None known.

Special protective actions for fire-fighters: None known.

Special protective equipment for fire-fighters: Use self-contained breathing apparatus (SCBA) and full protective equipment.

Further information: Not applicable.
6. Accidental Release Measures

**Personal precautions**
See Section 8.

**Emergency procedures**
None known.

**Methods and materials for containment/cleanup**
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 be easily removed after it is waterborne; however, the material is non-hazardous in water.

**Environmental precautions**
None.

7. Handling and Storage

**Precautions for safe handling**
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.

**Precautions/Recommendations for safe/proper storage**
No special procedures.

8. Exposure Controls/Personal Protection

**Occupational Exposure Limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Agency</th>
<th>Limit Type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Respirable fiber and particulate</td>
<td>65997-17-3</td>
<td>OSHA</td>
<td>TWA: 15mg/Cubic Meter</td>
<td>ACGIH TLV 5.0mg/Cubic Meter</td>
</tr>
<tr>
<td>Respirable particulate</td>
<td>65997-17-3</td>
<td>OSHA</td>
<td>TWA: 5mg/Cubic Meter</td>
<td>ACGIH TLV None Established</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**
There is a possibility of high particulate exposure levels when working with this product. At a minimum, local exhaust and/or general dilution ventilation 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.

**Environmental exposure controls**
Not available.

**Individual protection measures/Personal protective equipment**

**Eye/face protection**
Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety glasses with side shields or goggles.

**Hand protection**
Use gloves when handling this product to reduce skin contact as appropriate.

**Skin protection**
Use body protection appropriate for the task (e.g. lab coat, coveralls).

**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
Special instructions for protection and hygiene

Not available.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical family</td>
<td>Glass</td>
</tr>
<tr>
<td>Appearance</td>
<td>White to grey powder</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>White to grey</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Density (Specific Gravity)</td>
<td>2.55 – 2.58</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&gt;800°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability limit (by volume)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Material VOC</td>
<td>&lt;.04%</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>This is a stable material.</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>Stable under conditions of normal use and storage.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Will not occur.</td>
</tr>
<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>Other hazards</td>
<td>None known.</td>
</tr>
</tbody>
</table>
11. Toxicological Information

**Acute Health Hazard**

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.

**Irritation/Corrosion**

Data not available.

**Sensitization**

Not classified.

**Mutagenicity**

Data not available.

**Carcinogenicity**

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.

**Reproductive Toxicity**

Data not available.

**Teratogenicity**

Data not available.

**Specific target organ toxicity (single exposure)**

Data not available.

**Specific target organ toxicity (repeated exposure)**

Data not available.

**Aspiration hazard**

Data not available.

**Potential acute health effects**

- **Eye Contact**
  No data available.
- **Inhalation**
  No data available.
- **Skin Contact**
  No data available.
- **Ingestion**
  No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **Eye Contact**
  No data available.
- **Inhalation**
  No data available.
- **Skin Contact**
  No data available.
- **Ingestion**
  No data available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Potential chronic health effects**

- **General**
  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).

Carcinogenicity
No data available.

Mutagenicity
No data available.

Teratogenicity
No data available.

Developmental effects
No data available.

Fertility effects
No data available.

Numerical measures of toxicity
Acute toxicity estimates (ATEmix) No data available.

12. Ecological Information

Ecotoxicity
No data available.

Persistence and degradability
No data available.

Bioaccumulative Potential
No data available.

Mobility in Soil
No data available.

Soil/water partition coefficient (KOC)
No data available.

Other adverse effects
No data available.

13. Disposal Considerations

Waste from residues/ unused products
Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. No EPA Waste Numbers are applicable for this product’s components. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

14. Transport Information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International Transport Regulations

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN/NA number</th>
<th>Proper Shipping Name</th>
<th>Classes/*PG</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*PG: Packing group</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user:
Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. Regulatory Information
UNITED STATES

U.S. Federal Regulations
United States – TSCA 12(b) – Chemical export notification: None Required.
United States – TSCA 5(a)2 – Final significant new use rules: Not Listed.
United States – TSCA 5(a)2 – Proposed significant new use rules: Not Listed.
United States – TSCA 5(e) – Substance consent order: Not listed.

Clean Air Act – Ozone Depleting Substances (ODS) None.
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) None.
California Prop. 65 None
EPA SARA 302 Extremely Hazardous Substances Not available.
EPA SARA 302/304/311/312 Hazardous Chemicals Not available.
SARA 313 Not available.
Form R – Reporting requirements Not available.
CERCLA Hazardous substances Not available.

CANADA
Not available.

INTERNATIONAL REGULATIONS
Australia inventory (AICS): All components are listed or exempted.
DSL: All components are listed or exempted.
EINECS: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand: All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
TSCA: All components are listed or exempted.

16. Other Information, Including Date of Preparation or Last Revision

HMIS Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Date of Preparation May 7, 2020
Date of Last Revision
Revision # 1.0
More Information 1-253-333-8118
Prepared by System Three Resins Inc.

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