GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Parts #579, #1779 - Breather and Bleeder

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

TELEPHONE: (937) 833-5200
FAX: (937) 833-6555
FOR CHEMICAL EMERGENCY CALL (800) 424-9300 24 HRS.

RECOMMENDED USE: Standard composite manufacturing.

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Not applicable

Emergency Overview

Appearance : Form: solid
Color: varying

Odor : odorless

Classification : article not subject to hazard labelling or classification.

Regulatory status : This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified : Toxic fumes may be emitted at elevated temperatures. Do not breathe vapor. Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. Avoid inhalation of dusts, as even inert dusts may functionally affect respiratory organs.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS
**Chemical characterization:** Article: Nylon, Polyester or Fiberglass Bleeder/Breather

### SECTION 4 – FIRST AID MEASURES

**In case of inhalation:** In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. If the casualty has difficulty breathing, call a doctor immediately.

**Following skin contact:** After contact with molten product, cool skin area rapidly with cold water. Do not peel solidified product off the skin. Seek medical attention.

**After eye contact:** In the event of irritation from processing vapors: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After swallowing:** Not a probable route of exposure. In the case of the formation of dust: Rinse mouth. Seek medical treatment in case of troubles.

**Most important symptoms/effects, acute and delayed**

**In case of inhalation:** Inhalation of dust may cause irritation of the respiratory system. Overheating released mist or vapors can irritate the respiratory tracts.

**Other symptoms:** Cough, respiratory complaints, dizziness, nausea, vomiting.

**After contact with skin:** Thermal decomposition products or aerosols can cause irritation.

**Other symptoms:** Itching redness of the skin and oedema (swelling). The melted product can cause severe burns.

**After eye contact:** Process vapors can irritate the eyes. Dust contact with the eyes can lead to mechanical irritation.

**Information to physician:** Treat symptomatically.

### SECTION 5 – FIRE-FIGHTING MEASURES

**Flash point/flash point range:** No data available

**Auto-ignition temperature:** No data available

**Suitable extinguishing media:** Water fog, dry chemical powder, foam, carbon dioxide

**Extinguishing media which must not be used for safety reasons:** Full water jet

**Specific hazards arising from the chemical**

This material is combustible, but will not ignite readily. Toxic fumes may be emitted at elevated temperatures.

**In case of fire may be liberated:** Caprolactam, nitrogen oxides (NOx), amines, carbon monoxide and carbon dioxide

**Protective equipment and precautions for firefighters:**
Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information:** Seal off endangered area. Cool endangered containers with water spray and, if possible, remove from danger zone. Use a water fog to control vapors. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Handle in accordance with good industrial hygiene and safety practice.

At processing: Avoid the formation of aerosol/vapors. Avoid generation of dust. Avoid inhalation and contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away. Ensure adequate ventilation, especially in confined areas.

**Environmental precautions:** Do not allow to penetrate into soil, waterbodies or drains.

**Methods for clean-up:** Take up mechanically, placing in appropriate containers for disposal. Dispose of waste according to applicable legislation.

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**SECTION 7 – HANDLING AND STORAGE**

**Handling**

**Advises on safe handling:** Handle in accordance with good industrial hygiene and safety practice.

At processing: Provide adequate ventilation, and local exhaust as needed. Avoid the formation of aerosol/vapors. Avoid generation of dust. Avoid inhalation and contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away. When using do not eat, drink or smoke.

**Precautions against fire and explosion:** Take standard precautions to prevent fire.

**Storage**

**Requirements for storerooms and containers:** Keep in a cool place. Keep container dry. Protect from direct sunlight. Keep away from incompatible materials. Store at room temperature.

**Hints on joint storage:** Incompatible materials: Strong bases, strong acids, strong oxidizing agents. Keep away from food and drinks.

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**SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION**

**Exposure guidelines**

**Occupational exposure limit values:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA: ACGIH: TWA</td>
<td>10 mg/m³ Dust limit value, indicative; inhalable fraction</td>
</tr>
</tbody>
</table>
USA: ACGIH: TWA
3 mg/m³ Dust limit value, indicativ; respirable fraction

USA: OSHA: TWA
15 mg/m³ Dust limit value inhalable fraction

USA: OSHA: TWA
5 mg/m³ Dust limit value respirable fraction

**Engineering controls**

Provide good ventilation and/or an exhaust system in the work area.
In case of development of vapors or dust (at processing): Use local exhaust.
See also information in chapter 7, section storage.

**Personal Protective equipment (PPE)**

**Eye/Face protection**

**Skin protection**
At processing (recommended): Wear suitable protective clothing.
Recommendation:
Glove material: nitrile rubber (0.11 mm)
Breakthrough time: 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Respiratory protection**
Respiratory protection is not necessary if room is well ventilated.
At processing:
When vapors form, use respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. When using do not eat, drink or smoke.
At processing:
Avoid contact with skin, eyes, and clothing. Do not breathe vapors. Do not breathe dust.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**
Form: solid
Color: varying

**Odor:**
odorless

**Odor threshold:**
No data available

**pH:**
N/A

**Melting point/freezing point:**
No data available

**Initial boiling point**
And boiling range:
No data available

**Flash point/flash point range:**
No data available

**Evaporation rate:**
No data available

**Flammability:**
This material is combustible, but will not ignite readily.

**Explosion limits:**
No data available

**Vapor pressure:**
No data available

**Vapor density:**
No data available
Density: No data available

Water solubility: at 68 °F: insoluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Additional information: No data available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: refer to section: Possibility of hazardous reactions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions with proper and specified storage and handling

Conditions to avoid: Keep away from heat. Protect from direct sunlight. Avoid generation of dust. Avoid the formation of aerosol/vapors.

Incompatible materials: Strong bases, strong acids, strong oxidizing agents.

Hazardous decomposition Products: In case of fire may be liberated: Caprolactam, nitrogen oxides (NOx), amines, carbon monoxide and carbon dioxide

Thermal decomposition: No data available

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

**Other information:**

Toxic fumes may be emitted at elevated temperatures. Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. Dust may irritate airways and cause bronchitis symptoms.

Information about Caprolactam: Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Symptoms**

**In case of inhalation:** Inhalation of dust may cause irritation of the respiratory system. Overheating released mist or vapors can irritate the respiratory tracts.

**Other symptoms:** Cough, respiratory complaints, dizziness, nausea, vomiting.

**After contact with skin:** Thermal decomposition products or aerosols can cause irritation.

**Other symptoms:** Itching redness of the skin and oedema (swelling).

**The melted product can cause severe burns.**

**After eye contact:** Process vapors can irritate the eyes. Dust contact with the eyes can lead to mechanical irritation.

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**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Effects in sewage plants:** The insoluble part can be precipitated mechanically in suitable sewage treatment plants.

**Further details:** No data available

**Mobility in soil**

No data available

**Persistence and degradability**

**Further details:** Product is not biodegradable
Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product
Recommendation: Dispose of waste according to applicable legislation. Recycling or special waste incineration.

Contaminated packaging
Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

SECTION 14 – TRANSPORT INFORMATION

USA: Department of Transportation (DOT)
Proper shipping name: Not restricted

Sea transport (IMDG)
Proper shipping name: Not restricted
Marine pollutant: No

Air Transport (IATA)
Proper shipping name: Not restricted

Further information
No dangerous goods in sense of these transport regulations.

SECTION 15 – REGULATORY INFORMATION

National regulations – U.S. Federal Regulations
This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

National regulations – Great Britain
Hazchem-Code: -
Not applicable
### SECTION 16 – OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazard rating systems</th>
<th>NFPA Hazard Rating:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Health: 1 (Slight)</td>
</tr>
<tr>
<td></td>
<td>Fire: 1 (Slight)</td>
</tr>
<tr>
<td></td>
<td>Reactivity: 0 (minimal)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS Version III Rating:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 1 (Slight)</td>
</tr>
<tr>
<td>Flammability: 1 (Slight)</td>
</tr>
<tr>
<td>Physical Hazard: 0 (minimal)</td>
</tr>
<tr>
<td>Personal Protection: X = Consult your supervisor</td>
</tr>
</tbody>
</table>

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.