



## GHS SAFETY DATA SHEET (GHS)

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Part #180 - Clear Gel Coat

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

#### GHS classification

#### GHS Label Element



#### Hazard pictograms (GHS-US)

:

Signal word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: Flammable liquid and vapour  
Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
May cause respiratory irritation  
Suspected of damaging fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US)

: Keep away from heat, hot surfaces, open flames, sparks.–No smoking  
Keep cool  
Do not breathe dust, fume, gas, mist, spray, vapours  
Wash hands, forearms and face thoroughly after handling  
Avoid release to the environment  
Wear protective clothing, protective gloves, eye protection  
Immediately call a doctor, a POISON CENTER  
In case of fire: Use ABC-powder, carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, dry sand, foam to extinguish

Store in a well-ventilated place. Keep container tightly closed  
Dispose of contents/container to an approved waste disposal plant

**Other hazards**

No additional information available

**Unknown acute toxicity (GHS-US)**

Not applicable

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

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COMPONENTS	CAS NUMBER	WEIGHT %
Styrene	100-42-5	>=25
Acrylate ester	80-62-6	5 - 10
Silicon dioxide amorph	7631-86-9	1 - 5

The specific chemical identities are being withheld as a trade secret (29CFR1910.1200).

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**SECTION 4 – FIRST AID MEASURES**

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**Description of first aid measures**

First-aid measures general	: move the affected person away from the contaminated area. Immediately consult a doctor/medical service. If possible, show them this sheet. Failing this, show him the packaging or label. Do not leave affected person unattended.
First-aid measures after inhalation	: Call a physician immediately. If unconscious place in recovery position and seek medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Rinse immediately with plenty of water for 15 minutes. If symptoms persist, call a physician.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If eye irritation persists, consult a specialist.
First-aid measures after ingestion	: In all cases of doubt, or when symptoms persist, seek medical advice. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not give milk.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Skin irritation, dermatitis and sensitization. May cause sensitization of susceptible persons by skin contact.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Indication of any immediate medical attention and special treatment needed**

If you feel unwell, seek medical advice.

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## SECTION 5 – FIRE-FIGHTING MEASURES

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### **Extinguishing media**

**Suitable extinguishing media** : Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

**Unsuitable extinguishing media** : high volume water jet.

### **Special hazards arising from the substance or mixture**

**Fire Hazard** : Do not allow run-off from fire fighting to enter drains or water courses.

**Reactivity** : Stable under normal conditions.

### **Advice for firefighters**

**Firefighting instructions** : Comply with local regulations for disposal.

**Protection during firefighting** : In case of fire: Wear self-contained breathing apparatus.

**Other information** : Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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### **Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Protective equipment : Wear suitable protective clothing.

Emergency procedures : Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to a safe area. Special attention should be given to low areas/pits where flammable vapours can accumulate.

**For emergency responders** : No information available

**Environmental precautions** : prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### **Methods and material for containment and cleaning up**

For containment : Collect the residue by means of a non-combustible absorbent material. Collect all waste in suitable and labelled containers and dispose according to local legislation.

Methods for cleaning up : Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Store in a well-ventilated place. Keep container tightly closed.

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## SECTION 7 – HANDLING AND STORAGE

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### Precautions for safe handling

Additional hazards when processed : Use isolated drainage to prevent discharge to soil. Take precautionary measures against static discharge. The product may charge electrostatically: use earthing leads when transferring from one container to another. In order to rule out potential electrostatic discharge production, the system must be adequately grounded.

Precautions for safe handling : Do not exceed the occupational exposure limits (OEL). Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened should be properly resealed and kept upright to prevent leakage.

Storage temperature : <25°C

Heat and ignition sources : This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been explosion-proof electrical equipment and lighting with earth. Electrical equipment should be protected to the appropriate standard.

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## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control parameters

<b>Styrene (100-42-5)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	85 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (ppm)	40 ppm
ACGIH	Remark (ACGIH)	CNS impair; URT irr; peripheral
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm
OSHA	Remark (OSHA)	(Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 600 ppm 5 mins. in any 3 hrs.)
IDLH	US IDLH (ppm)	700 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	215 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	425 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	426 mg/m <sup>3</sup>
Canada (Quebec)	VECD (ppm)	425 mg/m <sup>3</sup> (peau, C3) 100 ppm

Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	213 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	50 ppm
Alberta	OEL STEL (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	40 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	85 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	20 ppm
British Columbia	OEL STEL (ppm)	75 ppm
British Columbia	OEL TWA (ppm)	50 ppm
British Columbia	Notations and remarks	2B
Ontario	OEL STEL (ppm)	100 ppm
Ontario	OEL TWA (ppm)	35 ppm

<b>Acrylate ester (80-62-6)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (ppm)	100 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; body weight eff; DSEN; RSEN; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)
IDLH	US IDLH (ppm)	1000 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	100 ppm
Alberta	OEL STEL (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	100 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	50 ppm
British Columbia	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
British Columbia	OEL TWA (ppm)	50 ppm
British Columbia	Notations and remarks	S

<b>Silicon dioxide amorph (7631-86-9)</b>		
IDLH	US IDLH (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>

**Exposure controls**

- Materials for protective clothing : chemical resistant safety shoes. Overall.
- Hand protection : Wear suitable gloves. PVC gloves. A waterproof cream can protect exposed skin parts. Do not use if contact has already taken place. In case of reutilization, clean gloves before taking off and store in well-aired place. Before removing gloves clean them with soap and water. Protective gloves have to be replaced at the first sign of deterioration.
- Eye protection : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Safety glasses with side shields. Do not wear contact lenses.
- Skin and body protection : Wear anti-static footwear and clothing. Tight protective clothing required. Only wear fitting, comfortable and clean protective clothing.

Wash clothing before re-using. Avoid contact with skin. May cause sensitization of susceptible persons by skin contact.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode. Consult supplier for specific recommendations.

Environmental exposure controls : Do not empty into drains.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical state</b>	: Liquid
<b>Color</b>	: Pink
<b>Odour</b>	: Pungent
<b>Odour threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Melting point</b>	: No data available
<b>Freezing point</b>	: No data available
<b>Boiling point</b>	: 100°C
<b>Flash point</b>	: 28,33°C
<b>Relative evaporation rate (butylacetate=1)</b>	: No data available
<b>Flammability (solid,gas)</b>	: No data available
<b>Explosive limits</b>	: No data available
<b>Explosive properties</b>	: No data available
<b>Oxidising properties</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative density</b>	: No data available
<b>Relative vapour density at 20°C</b>	: 4,5
<b>Solubility</b>	: No data available
<b>Log Pow</b>	: No data available
<b>Log Kow</b>	: No data available
<b>Self-ignition temperature</b>	: No data available
<b>Decomposition temperature</b>	: No data available
<b>Viscosity</b>	: No data available
<b>Viscosity, kinematic</b>	: >20,5 mm <sup>2</sup> /s
<b>Viscosity, dynamic</b>	: No data available

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## SECTION 10 – STABILITY AND REACTIVITY

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<b>Reactivity</b>	: Stable under normal conditions
<b>Chemical stability</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
<b>Possibility of hazardous reactions</b>	: Vapours may form explosive mixture in air
<b>Conditions to avoid</b>	: No additional information available
<b>Incompatible materials</b>	: Strong acids. Strong bases. Oxidizing agents. Peroxides.
<b>Hazardous decomposition products</b>	: Stable under normal conditions

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## SECTION 11 – TOXICOLOGICAL INFORMATION

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**Acute toxicity** : Not classified

<b>Styrene (100-42-5)</b>	
ATE US (vapours)	11,000 mg/l/4h

**Skin corrosion/irritation** : **Causes skin irritation.**

**Serious eye damage/irritation** : **Causes serious eye irritation.**

**Respiratory or skin sensitization** : **May cause an allergic skin reaction.**

**Germ cell mutagenicity** : **Not classified**

**Carcinogenicity** : **Not classified**

<b>Styrene (100-42-5)</b>	
IARC group	2B – Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 – Reasonably anticipated to be a Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

<b>Acrylate ester (80-62-6)</b>	
IARC group	3 – not classifiable

<b>Silicon dioxide amorph (7631-86-9)</b>	
IARC group	3 - Not classifiable

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity (single exposure)** : May cause respiratory irritation.

**Specific target organ toxicity (repeated exposure)** : Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** : Not classified

**Symptoms/injuries after inhalation** : May cause respiratory irritation.

**Symptoms/injuries after skin contact** : Skin irritation, dermatitis and sensitization. May cause sensitization of susceptible persons by skin contact.

**Symptoms/injuries after eye contact** : Causes serious eye irritation.

**Symptoms/injuries after ingestion** : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

## SECTION 12 – ECOLOGICAL INFORMATION

### **Toxicity**

<b>Styrene (100-42-5)</b>	
LC50 fish 1	10 mg/l
EC50 Daphnia 1	4,7 mg/l
ErC50 (algae)	4,9 mg/l
NOEC chronic crustacea	1,01 mg/l

### **Persistence and degradability**

<b>PL405-1 MF Marine 45% Clear</b>	
Persistence and degradability	No data available.

### **Bioaccumulative potential**

<b>PL405-1 MF Marine 45% Clear</b>	
Bioaccumulative potential	No data available.

### **Styrene (100-42-5)**

Log Pow	3
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**Mobility in soil** : No additional information available

### **Other adverse effects**

Other adverse effects : No data available.

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13 – DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

**Regional legislation (waste)** : Disposal must be done according to official regulations. Hazardous waste. Solvent.

**Sewage disposal recommendations** : Do not allow to enter surface water or drains.

**Waste disposal recommendations** : Dispose of this material and its container to hazardous or special waste collection point. Handle contaminated packaging in the same way as the product itself.

## SECTION 14 – TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT



Transport document description : UN1866 Resin solution (flammable), 3, III

UN-No.(DOT) : UN1866

Proper Shipping Name (DOT) : Resin solution  
flammable

Transport hazard class(es) (DOT) : 3 – Class 3 – Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 – Flammable liquid

Packing group (DOT) : III – Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.  
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
T2 - 1.5 178.274(d)(2) Normal .....178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220L

DOT Vessel Stowage Location : A – The material may be stowed “on deck” or “underdeck” on a cargo vessel and on a passenger vessel

**Additional information**

Other information : No supplementary information available

**Transport by sea**  
No additional information available

**Air transport**  
No additional information available

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**SECTION 15 – REGULATORY INFORMATION**

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**U.S. Federal Regulations:**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Xylene, mixture of isomers	CAS No 1330-20-7	0,1 – 1%
Synthetic amorphous silica, fumed	CAS No 112945-52-5	1 – 5%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

styrene	CAS No 100-42-5	SARA Section 313 – Emission Reporting 0,1%	38,93%
Methyl methacrylate	CAS No 80-62-6	SARA Section 313 – Emission reporting 1,0%	5,00%

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

styrene	CAS No 100-42-5	38,93%

**Styrene (100-42-5)**

- U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
- U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
- U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. - Illinois - Toxic Air Contaminant Carcinogens
- U.S. - Illinois - Toxic Air Contaminants
- U.S. - Massachusetts - Allowable Ambient Limits (AALs)
- U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
- U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Right To Know List
- U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
- U.S. - Massachusetts - Toxics Use Reduction Act
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Special Health Hazards Substances List
- U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
- U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
- U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
- U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

**Methyl methacrylate (80-62-6)**

- U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. - Illinois - Toxic Air Contaminants
- U.S. - Massachusetts - Allowable Ambient Limits (AALs)
- U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Right To Know List
- U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
- U.S. - Massachusetts - Toxics Use Reduction Act
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
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<b>Silicon dioxide amorph (7631-86-9)</b>
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U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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**Canadian Federal regulations**

All chemical substances in this product are listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL) inventory.

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**SECTION 16 – OTHER INFORMATION**

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**Revision Date**

**August 28, 2019**

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