GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Part #260 – Continuous Strand Veil Surfacing Mat

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

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

RECOMMENDED USE: Continuous Filament Reinforcement Mat for use with Standard Composite Manufacturing

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION
This product is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label Element
Hazard pictograms :

GHS label elements, including precautionary statements

Emergency Overview: No unusual conditions are expected from this product.

Skin Irritation – Fiberglass may cause temporary skin irritation. Individuals should wear long sleeves, gloves and eye protection when handling material, Cleanse skin with soap and cold water after handling. Wash work clothes separately and rinse washer.
Dust Irritation – A disposable mask designed for nuisance type dusts can be used when handling material in order to prevent irritation to the nose or throat due to dust or airborne particles.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	CAS No.	Wt. %
Fiber Glass (non respirable)*1	65997-17-3	84-96%
Organic Surface Binder	NA	4-16%

"A-type chemical composition*" Glass Fibers; Lead and Boron free; 18-30 micron average fiber diameter. Organic Surface Binder (Thermoset Polyester) 4%-16% (typical content). As manufactured, continuous filament glass fibers are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards. See Section 8 of Material Safety Data Sheet for exposure limit data.

*A glass is composed primarily of oxides of silicon, sodium, calcium and aluminum, fused in an amorphous vitreous state.

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

Description of first aid measures

Inhalation:

Move person to fresh air. Seek medical attention if irritation persists.

Skin Contact:

For skin contact, wash with mild soap and cold water. Do not wash with warm water because this will open up the pores of the skin, which will cause further penetration of the fibers. Use a washcloth to help remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into skin. If irritation persists get medical attention.

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, gently wipe or rinse mouth with water. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS PERSON. Contact poison control center, emergency room or physician for treatment.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water fog, foam, carbon dioxide (CO2) or dry chemical. Use extinguishers appropriate for the surrounding area, paying close attention to electrical equipment or dissimilar combustibles stored in adjacent areas.

Specific hazards arising from material

Hazardous decomposition will not occur. Primary byproducts of combustion are CO, CO2 Carbon particulate and glass fibers. Other undetermined compounds could be released in small quantities.

Special protective equipment

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

Additional information

Flash point:	None	Flash point method:	Not determined
Upper flammability limit:	None	Lower flammability limit:	None

Flammability class:	Non-flammable	Vapor density (Air=1):	N/A
Unusual fire and Explosion hazards	None known		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment procedures

This material will settle out of air. If concentrated on land, it can 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.

Response procedures

Isolate area. Keep personnel away.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

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

Storage procedures

For optimum performance store in area at or below 25 degrees C with relative humidity less than 65%.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Fiber Glass Continuous Filament (65997-17-3)

Ingredient	OSHA PEL (8-hr TWA)	ACGIH TLV (8-hr TWA)
Non-respirable fibers and particulate	15 mg/m^3 (total dust)(a)	5 mg/m^3 (inhalable fraction)
Respirable particulate	5 mg/m^3 (respirable dust)(b)	None
Respirable particulate with fiber like dimensions (glass shards)	None Established	None Established

Engineering measures

Ventilation: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Individual protection measures, such as 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 should be used when high dust levels are encountered, the level of glass fibers in the air exceeds the occupational exposure limits, or if irritation occurs.

Skin Protection: Normal work clothing (long sleeved shirts and long pants) is recommended. Use impervious gloves. Skin irritation is known to occur chiefly at pressure points such as around neck, wrists, waist, and between fingers.

Eye/Face Protection Equipment: Wear safety glasses with side shields, goggles or face shield.

Other Protective Equipment: None required. Barrier creams can be of help to ultra-sensitive individuals. It is recommended to wash work clothing separate from other laundry. Rinse washer at end of cycle.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	White/ off white
Odor:	None
Physical State:	Solid
PH:	N/A
Vapor pressure (mm Hg @ 200 C): Vapor Density (Air= 1):	N/A
Boiling Point:	N/A
Solubility (H2O):	Insoluble
Specific Gravity (Water =1): Freezing Point:	2.5 2.6
Evaporation Rate (n-ButylAcetate=1): Viscosity:	N/A
VOC:	N/A
Melting (Softening) Point:	>650^{O} C
Partition Coefficient	N/A
Auto Ignition Temperature	N/A

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability
This is a stable material.

Hazardous reactions
None known.

Conditions to avoid
None known

Incompatible Materials
None known

Hazardous Decomposition Products

Fiberglass alone will not burn. But smoking of the sizings or binders may occur in temperature environments exceeding 205 degrees C. These same ingredients will release carbon monoxide and carbon dioxide in a sustained fire situation. See Section 5 of SDS for information on hazardous combustion products.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause coughing, nose and throat irritation, and sneezing. People with pre-existing respiratory conditions may experience difficulty breathing, congestion and chest tightness.
Eye contact	May cause temporary eye irritation.
Skin contact	May cause temporary irritation to the affected area.
Ingestion	May cause irritation of the throat, stomach and gastrointestinal tract. Not an expected route of exposure.

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

CARCINOGENICITY STATUS: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.
MEDICAL CONDITIONS AGGREVATED: None known.
EFFECTS OF OVEREXPOSURE:
ACUTE: EYE: Dusts from this product can cause temporary mechanical irritation to the eyes.
SKIN: Dusts from this product may cause temporary mechanical irritation to the skin.
INHALATION: Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract.
CHRONIC: There are no known health effects from the long term use or contact with **nonrespirable** continuous filament glass fibers. As manufactured, glass fibers are **nonrespirable. Nonrespirable** fibers cannot reach the deep lung because they have a fiber diameter greater than 3.5 micrometers. Fibers of this diameter are unable to penetrate the narrow and bending passages of the human respiratory tract, and therefore cannot possibly cause serious pulmonary damage. Loose fibers will deposit on the surfaces of the upper respiratory tract, nose, or pharynx. These fibers are then expelled through normal physiological mechanisms.

Chopped, crushed or severely mechanically processed fiber glass may contain a very small amount of **respirable** glass fibers that could possibly reach deep lung areas. The measured airborne concentration of these **respirable** fibers in areas where noted processing has occurred, has been shown to be extremely low and well below the TLV. Repeated or prolonged exposure to **respirable** glass fibers may cause fibrosis, lung cancer and mesolthelioma. Fiber glass products in the form supplied does not contain respirablefibers.

Epidemiology Studies: Two major studies, in the US (performed by the University of Pittsburgh) and in Europe (performed by the International Agency for Research on Cancer) showed no increase in lung cancer or respiratory disease among people working in fiber glass production facilities. An additional smaller study performed in Canada also did not show an association between exposure of workers to fiber glass and respiratory cancer.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Fiberglass itself is considered to be an inert solid waste. No special precautions are needed in case of a release or spill.
ENVIRONMENTAL FATE: No data at this time.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material if discarded, is not expected to be a characteristic hazardous waste under RCRA. Dispose of waste material and packaging materials according to Local, State, Federal and Provincial Environmental Regulations.

SECTION 14 – TRANSPORT INFORMATION

US DOT/TDG (Canada) Information

Shipping name:	Not regulated for transport
Hazard Class:	None
UN/NA #:	None
Packing Group:	None
Required labels:	None
Marine Pollutant:	None

Additional Transportation Regulations:

No additional information available.

SECTION 15 – REGULATORY INFORMATION

US Federal Regulations:

A: General Product Information

No additional information available.

B: Component Analysis

No additional information available.

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

Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Sudden release of Pressure Hazard: No
Reactive Hazard: No

C. Clean Air Act

There are no components that appear on the Clean Air Act – 1990 Hazardous Air Pollutants List:

State Regulations:

A: General Product Information

No additional information available.

B: Component Analysis – State

None

Other Regulations:

A: General Product Information

No additional information available.

B: Component Analysis – Inventory

Component	CAS #	TSCA	DSL	EINECS

Fiber glass (Continuous Filament)	65997-17-3	Yes	Yes	266-046-0

C: 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

D: Other GovernmentRegulations

Continuous filament glass products are not classified as a "Dangerous Substance" or a "Dangerous Preparations" under the EU Directive 88/379/EEC.

1. Classification and Labeling (EEC)

This product is not required to be labeled under Council Directives 88/379EEC, 67/548/EEC, Annex I, and 97/69/EC.

2. Certification statement for:

Directive 2002/95/EC for RoHS and Directive 2002/96/EC for WEEE
Based on our current glass analyses, HFP certifies that our fiberglass mats are well below the requirements of both of these Directives.

SECTION 16 – OTHER INFORMATION

Revision Date
8/8/2023

HMIS and NFPA Hazrad Ratings:

Category	HMIS	NFPA
Acute Health	1	1
Flammability	0	0
Reactivity	0	0

These products do not contain, nor are they manufactured with, Class I or Class II Ozone-Depleting Chemicals (CFCs) identified in the Clear Air Act Amendment, 1990 List of Ozone Depleting Chemicals.

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.