



Issue Date: No Data Available

# SAFETY DATA SHEET

Date: November 2015

## 1. IDENTIFICATION AND/OR USE OF THE SUBSTANCE/PRODUCT/MANUFACTURER OR DISTRIBUTOR

**Product identifier**

**Product Name:** B-Stage Fibrous Glass

**Other means of identification**

**Product Code:** None

**Synonyms:** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** No Data

**Uses advised against:** No Data

**Details of the supplier of the safety data sheet**

**MANUFACTURED BY:**

Pittsburgh Electrical Insulation (PEI)  
800 Martha Street  
Munhall, PA 15120  
Business: 412.462.6300

**Emergency telephone number**

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)


Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Combustible dust	-

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**  
 May cause cancer  
 Suspected of damaging fertility or the unborn child  
 May form combustible dust concentrations in air



**Appearance** No information available      **PHYSICAL STATE** Solid      **ODOR** No information available

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

Toxicity: No Data

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CAS No.	APPROX. WEIGHT PERCENT	TRADE SECRET
Fibrous Glass 65997-17-3	65997-17-3	60 - 100	
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	63450-15-7	5 - 10	
Toluene 108-88-3	108-88-3	0.1 - 1	

**4. FIRST-AID MEASURES****First aid measures****SKIN CONTACT:** Wash skin with soap and water. Remove any contaminated cloths if necessary.**EYE CONTACT:** Flush thoroughly with clear water for a minimum of 15 minutes. Make sure to lift lower and upper eyelids. Consult a physician.**INHALATION:** Immediately seek fresh air.**INGESTION:** Clean mouth with water. Drink ample amounts of water afterwards. Do not induce vomiting. Consult a physician.**Most important symptoms and effects, both acute and delayed****Symptoms:** No Data.**Indication of any immediate medical attention and special treatment needed****Note to physicians:** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Caution - Use of water spray when fighting fire may be inefficient.**Special Hazards:** No Data Known.**Explosion data**

**Sensitivity to Mechanical Impact:** None.  
**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions:** See Section 12 for additional ecological information.

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

**Methods for containment:** Prevent further leakage or spillage if it is safe to do so.

**Methods for cleaning up:** Transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

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

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials:** None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	ACGIH TLV	OSHA PEL-TWA	NIOSH IDLH
Fibrous Glass 65997-17-3	TWA: 1 fiber/cm <sup>3</sup> respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m <sup>3</sup> inhalable fraction	PARTICULATES: 15	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	PARTICULATES: 15	-
Toluene 108-88-3	TWA: 20 ppm	200	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>

**Appropriate engineering controls**

**ENGINEERING CONTROLS:** Exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

PEI recommends evaluation and selection of appropriate engineering controls (such as ventilation and eyewash/safety shower) as well as appropriate personal protective equipment (such as respiratory protection, protective gloves, eye protection) for safely handling this material. The following guidelines should be considered in this process.

<b>EYE PROTECTION:</b>	Safety glasses with side shields (designed to ANSI standards). Goggles may be required based on application and processing of material.
<b>GLOVES:</b>	None known.
<b>VENTILATION:</b>	Use in well ventilated area.
<b>RESPIRATORY PROTECTION:</b>	Use in a well ventilated area.
<b>OTHER PERSONAL PROTECTION DATA:</b>	None known.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>PHYSICAL STATE:</b>	Solid	<b>ODOR:</b>	Aromatic Mild
<b>APPEARANCE:</b>	No information available	<b>ODOR THRESHOLD(PPM):</b>	Unknown
<b>DESCRIPTION:</b>	OFF-WHITE		

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No Data	
Melting point/freezing point	No Data	
Boiling point / boiling range	No Data	
Flash point	No Data	
EVAPORATION RATE	No Data	
Flammability (solid, gas)	No Data	
Flammability Limit in Air	No Data	
Upper flammability limit:	No Data	
Lower flammability limit:	No Data	
VAPOR PRESSURE	No Data	
VAPOR DENSITY	No Data	
SPECIFIC GRAVITY	No Data	
Water solubility	No Data	
Solubility in other solvents	No Data	
Partition coefficient	No Data	
Autoignition temperature	No Data	
Decomposition temperature	No Data	
Kinematic viscosity	No Data	
Dynamic viscosity	No Data	
Explosive properties	No Data	
Oxidizing properties	No Data	

**Other Information**

Softening point	No Data
DENSITY	No Data
Bulk density	No Data

**10. STABILITY AND REACTIVITY****REACTIVITY**

No Data.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**CONDITIONS TO AVOID**

Keep away from heat, sparks, UV light exposure and flame.

**Incompatible materials**

Avoid contact with acidic, basic or oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide. Acetic acid. Fumes of allylic compounds. Formaldehyde.

<b>11. TOXICOLOGICAL INFORMATION</b>
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**Information on likely routes of exposure****PRODUCT INFORMATION:** No Data**INHALATION:** No Data**EYE CONTACT:** No Data**SKIN CONTACT:** No Data**INGESTION:** No Data

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Oral LD50	Dermal LD50	Inhalation LC50
Fibrous Glass 65997-17-3	-	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-
Toluene 108-88-3	= 2600 mg/kg ( Rat )	= 12000 mg/kg ( Rabbit )	= 12.5 mg/L ( Rat ) 4 h

**Information on toxicological effects****Symptoms:** No Data.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization:** No Data.**Germ cell mutagenicity:** No Data.**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	ACGIH	IARC	NTP	OSHA
Fibrous Glass 65997-17-3	-	Group 3	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-	-
Toluene 108-88-3	-	Group 3	-	-

**Reproductive toxicity:** No Data.  
**STOT - single exposure:** No Data.  
**Aspiration hazard:** No Data.

**Numerical measures of toxicity - PRODUCT INFORMATION**

**Toxicity:** No Data

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

98.98417226174% of the mixture consists of components(s) of unknown hazards to the aquatic environment

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Acute Algae Toxicity:	Acute Fish Toxicity:	Crustacea
Fibrous Glass 65997-17-3	-	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-
Toluene 108-88-3	12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 433: 96 h Pseudokirchneriella subcapitata mg/L EC50	11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 12.6: 96 h Pimephales promelas mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 54: 96 h Oryzias latipes mg/L LC50 static	5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No Data.

**Bioaccumulation**

No Data.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Partition coefficient
Fibrous Glass 65997-17-3	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-
Toluene 108-88-3	2.65

**Other adverse effects**

No Data.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Do not reuse container.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	RCRA Classification:	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Fibrous Glass 65997-17-3	-	-	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-	-
Toluene 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151	-	U220

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Fibrous Glass 65997-17-3	-	-	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-	-
Toluene 108-88-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	-

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	California Hazardous Waste Status
Fibrous Glass 65997-17-3	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-
Toluene 108-88-3	Toxic Ignitable

## 14. TRANSPORT INFORMATION

**DOT SHIPPING NAME:** ROVING-GLASS FIBER  
**DOT HAZARD CLASS:** NOT DOT REGULATED.  
**DOT PACKING GROUP:** NOT DOT REGULATED.  
**DOT LABEL(S):** NOT DOT REGULATED.  
**UN/NA NUMBER:** NOT DOT REGULATED.  
**PLACARDS:** NONE NOT DOT REGULATED.  
**ICAO/IATA:** NOT REGULATED  
**MARINE POLLUTANT:** NONE  
**NMFC CLASSIFICATION:** CLASS 70

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA:** Does not comply  
**DSL/NDSL:** Complies  
**EINECS/ELINCS:** Does not comply  
**ENCS:** Does not comply  
**IECSC:** Does not comply  
**KECL:** Does not comply  
**PICCS:** Does not comply  
**AICS:** Does not comply

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**ACUTE HEALTH HAZARD:** No  
**FIRE HAZARD:** No  
**SUDDEN RELEASE OF PRESSURE HAZARD:** No  
**REACTIVE HAZARD** No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Fibrous Glass 65997-17-3	-	-	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-	-
Toluene 108-88-3	1000 lb	X	X	X

**CERCLA**



HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Hazardous Substances RQs	CERCLA/SARA RQ
Fibrous Glass 65997-17-3	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-
Toluene 108-88-3	1000 lb 1 lb	RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

**US State Regulations****CALIFORNIA PROPOSITION 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	New Jersey Right-to-Know List:	MA Right to Know Law:	Pennsylvania Right to Know List
Fibrous Glass 65997-17-3	-	-	-
Vinyl Alcohol-Vinyl Acetate-Vinyl Formal Copolymer 63450-15-7	-	-	-
Toluene 108-88-3	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

<b>16. OTHER INFORMATION</b>
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**NFPA RATING:** HEALTH 1 , FLAMMABILITY 1 , INSTABILITY 0  
**HMIS CLASSIFICATION:** HEALTH \*1 , FLAMMABILITY 1 , PHYSICAL HAZARD 0

**Prepared By:** Pittsburgh Electrical Insulation Corporation  
**Date Prepared:** November 2015

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**MSDS END**