

Bylix™ 825 Safety Data Sheet (SDS)

Section 1: Product Name

Product Name: Glass Fiber

Section 2: Hazards Identification

Hazardous Classification:

Glass fiber product is not classified as dangerous /hazardous for its composition according to European Directive 67/548/EEC and Global Harmonized System(GHS).

Primary Routes of Exposure: Inhalation, Skin, Eye

Potential Health Effects:

ACUTE (short term): Glass fiber product is a mechanical irritant. Breathing dusts and fibers may cause temporary irritation of the mouth, nose and throat. Skin contact with dusts and fibers may cause itching and temporary irritation.

Eye contact with dusts and fibers may cause temporary mechanical irritation.

Ingestion may cause temporary mechanical irritation of the stomach and intestines.

CHRONIC(long term): There is no known chronic health effects connected with long term use or contact with this product.

Medical Conditions Aggravated by Exposure: Respiratory or skin conditions that are

aggravated by mechanical irritants may be at an increased risk for worsening from exposure to this product.

Section 3: Hazards Identification

Common Name	Chemical Name	Cas No.	Wt. %	
Glass Fiber Product	Fibrous Glass	65997-17-3	98-100	

Nonhazardous Ingredients

Sizing / Binder Sizing Mixture 0-2



Section 4: First Aid Measures

Inhalation: Move to fresh air. If irritation persists, get medical attention.

Skin Contact: Wash with mild soap and running water.

To avoid further irritation, don't rub or scratch affected areas.

Rubbing or scratching may force fibers into the skin. If irritation persists, get medical attention.

Eye Contact: Flush eyes with running water for at least 15 minutes if irritation.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious).

Keep person warm and at rest. Do not induce vomiting. Get medical attention/advice.

Section 5: Fire Fighting Measures

Glass fiber product does not support combustion, only the binder/sizing are combustible and release small quantities of undetermined hazardous gas.

Flammable Properties: Non flammable

Flash Point: Not available

Auto Ignition Point: Not available

Extinguishing Media: Use appropriate extinguishers(eg.Water,foam,CO2 or dry chemical).

Fire Fighting Instructions: Use Self Contained Breathing Apparatus (SCBA) and full protective gear in a

sustained fire.

Hazardous Combustion Products: Primary combustion products are carbon monoxide,

carbon dioxide and water. Other undetermined compounds could be released in small quantities.

NFPA Ratings: HMIS Ratings:

NFPA Flammability: 0 HMIS Fire Hazard: 0

NFPA Health: 1 HMIS Health Hazard: 1

NFPA Reactivity: 0 HMIS Reactivity Hazard: 0

HMIS Physical Hazard: 0

Hazard Scale:

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic



Section 6 : Accidental Release Measures

Personnel Precautions: Avoid contact with skin and eyes.

Environmental Precautions: Prevent further leakage or spillage in water / air.

Methods for Clean up: Use an industrial vacuum cleaner with a high efficiency filter

to clean up dust and fiber contamination(avoid dry sweeping).

Collect and put into suitable container for disposal as a non-hazardous waste.

Section 7: Handing and Storage

Handling Procedure: Wear appropriate personal protective equipment(See Section 8) to avoid contact with skin and eyes directly.

Storage: It is recommended to store glass fiber product in a cool dry area.

Temperature should not exceed 35°C and the relative humidity should be kept below 65 %.

Keep product in its original packaging, as long as practicable to minimize potential dust generation.

Avoid unnecessary handling of scrap materials. Please do not stack higher than two pallets.

Glass fiber products should be used within 12 months from the delivery date to ensure optimum performance.

Section 8-1: Exposure Controls and Personal Protection

Ingredient(s)-Exposure Limits

	OSHA	ACGIH	NIOSH
	(8-hr TWA)	(8-hr TWA)	(8-hr TWA)
Glass Fiber Product	15 mg/m₃	5 mg/m₃	5 mg/m₃
	(total dust)	(inhalable fraction)	(total dust)
	5 m g/m₃	1 fiber/cm3	3 fiber/cm3
	(respirable dust)	(respirable fraction)	
Size	None Established	None Established	None Established



Section 8-2: Exposure Controls and Personal Protection

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

Personal Protective Equipment:

Respiratory Protection: Wear a properly fitted NIOSH approved disposable dust respirator.

Eye/Face Protection: Safety glasses, goggles or face shield.

Skin Protection: Normal work clothing (long sleeved shirts and pants) and gloves are recommended.

Section 9: Physical and Chemical Properties

Appearance: White or White-Yellow Fibers.

Physical State: Solid. Solubility in Water: Insoluble.

Odor: Odorless. Viscosity: Not Applicable.

PH: Not Applicable. Vapor Density: Not Applicable.

Boiling Point: Not Applicable. Evaporation Rate: Not Applicable.

Freezing / Melting Point: > 800°C. Auto Ignition Temperature: Not Applicable.

Flash Point: Not Applicable.

Lower / Upper Flammability: Not Applicable.

Lower / Upper Explosive Limit: Not Applicable.

Vapor Pressure (mm Hg @ 20°C): Not Applicable.

Specific Gravity (Water=1): 2.6



Section 10: Stability and Reactivity Information

Stability: Glass fiber product is a stable material under normal conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities (Conditions / Materials to Avoid): None.

Hazardous Decomposition Products: Sizing or binder may decompose in a fire situation.

* See Section 5 of SDS for combustion products statement.

Section 11-1: Toxicological Information

Acute Toxicity:

Glass dusts may cause temporary mechanical irritation to eyes and skin.

Temporary mechanical irritation is not classified as Irritant of European directive 67/548/EC.

Glass fiber product does not require to assign the symbol "Xi" .

Carcinogenicity:

Ingredient	IARC	ACGIH	OSHA
Glass Fiber	Group 3	A4	No data
Product(Non-respirable)	Not Classifiable	Not Classifiable	
	as to its	as a Human	
	Carcinogenicity	Carcinogen	
	to Humans		
Sizing / Binder	No	No	No
	LD50 Dermal	LD50 Oral	LC50 Inhalation
	(g/kg)	(g/kg)	(ppm, 8 hrs.)
Glass Fiber	Not Available	Not Available	Not Available
Product(Non-respirable)			
Sizing / Binder	Not Available	Not Available	Not Available

^{*}See Section 2 of SDS for potential health effects.



Section 11-2: Toxicological Information

Glass fiber product: The International Agency for Research on Cancer (IARC) categorized glass fiber product as Not Classifiable as to Carcinogenicity to Humans (Group 3) in 1987 and affirmed this decision again in October, 2001, based on inadequate evidence of carcinogenicity in humans and inadequate or limited evidence in experimental animals.

The American Conference of Governmental Industrial Hygienists (ACGIH) A4 classification,

Not Classifiable as a Human Carcinogen, for respirable glass fiber product is based on inadequate data in
terms of its carcinogenicity in humans and/or animals.

Glass fiber 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.

NIOSH defines "respirable fibers" as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of $\geq 5:1$ (length-to-width ratio).

For respirable glass fiber product, a TLV-TWA of 1 fiber/cc was adopted to protect workers against mechanical irritation. The TLV-TWA of 5mg/m₃ was adopted for non-respirable glass filament fiber, measured as inhalable dust, to prevent mechanical irritation of the upper respiratory tract.

Note: There are no known chronic health effects connected with long term use or contact with these products.

Section 12: Ecological Information

This material is not expected to cause harm to animals, plants or fish.

Section 13: Disposal Considerations

Glass fiber product waste is not a hazardous material.

Dispose of waste materials must be according to Local, State, Federal, and Provincial Environmental Regulations. Empty packing materials recycled or disposed also need to process under approved waste treatment regulations.



Section 14: Transportation Information

IMDG / ADR / RID / ICAO / IATA / DOT / MEX / Canadian: Not Regulated.

Section 15-1: Regulatory Information

REACH Regulation(EU) No. 1907/2006: In Status glass fiber product under the REACH Regulation drafted by European Glass fiber Producers Association , is defined as Article according to REACH article 3(3)-definition.

No registration requirements are applicable to Article.(article 6(1) of the Regulation).

Substances of Very High Concern (SVHC) status: Our glass fiber products do not use REACH SVHC Candidate List substances (revised on June 15, 2015).

Based on our knowledge, the concentration of each substance does not exceed REACH limit 1000 ppm in our glass fiber products.

RoHS Directive 2011/65/EU: Products analysis results are compliant with the limits of Restriction of Hazardous Substances Directive 2011/65/EU.

European Directive 67/548/EEC & Directive 1999/45/EC:

Glass fiber product is not classified as dangerous substances

& preparations of European derective 67/548/EEC and Directive 1999/45/EC.

European Standard EN 71, Part 3:

Products analysis results are compliant with the limits of Safety of Toys-Migration of certain elements.

Sony 00259: Products are compliant with the requirements of Sony SS-00259.

US SARA Title III

SARA 302 Extremely Hazardous Substances: Not Listed.

SARA 311 / 312 Hazardous Categories:

Acute Health Hazard: Yes Chronic Health Hazard: No

Fire Hazard: No

Pressure Hazard: No Reactivity Hazard: No

SARA 313 Toxic Chemicals: Not Listed.



Section 15-2: Regulatory Information

Clean Air Act (1990): Do not contain any hazardous substances that deplete the ozone layer.

TSCA Status: Products are manufactured compliant with TSCA.

OSHA Status: Product is not defined as hazardous by OSHA.

California Proposition 65: Glass fiber product did not reach a level of carcinogenicity concern sufficient to place on the candidate list.

Canadian Regulatory: Product is exempted from the Workplace Hazardous Materials
Information System(WHMIS) and classified in accordance with thehazard criteria of the Controlled Products
Regulations(CPR).

This SDS contains all the information required by the CPR.

Section 16-1: Regulatory Information

Acronyms / Definitions used in this SDS:

ACGIH: American Conference of Governmental Industrial Hygenists.

CAS No: Chemical Abstracts Service Number

California Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986

HMIS: Hazardous Material Identification System

IARC: International Agency for Research on Cancer

LC50: The air concentration of a substance, when administered over a specified time period

in an animal assay, is expected to cause the death of 50% of a defined animal population.

LD₅₀: The single dose of a substance that, when administered by a defined route in an animal use or contact with this product.

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration SARA: Superfund Amendments and Reauthorization Act



Section 16-2: Regulatory Information

Title III: Emergency Planning and Community Right to Know Act

Section 302 - Extremely Hazardous Substances

Section 313 - Toxic Chemicals

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act (USA)

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System

GHS: Global Harmonized System