

SAFETY DATA SHEET

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Product: Glass Fiber / Powder
Recommended use: Additive for concrete and composite products
• **Product type** Powder
Manufacturer information: REGEN Fiber
2020 Lefebure Rd.
Fairfax, IA 52228
800.878.4208

SECTION II - HAZARD IDENTIFICATION

Milled fiber powder products are not classified using GHS criteria, or by OSHA or EU legislation.

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

HMIS Personal Protection: To be supplied by user depending upon use.

Emergency Overview

No unusual conditions are expected from this product.

Appearance and Odor: White to gray fiber with little or no odor.

Primary Route(s) of Exposure: Inhalation, lungs, skin, and eye.

Potential Acute Health Effects

Inhalation: Dusts and fibers from this product may cause mechanical irritation of the nose, throat, and respiratory tract.

Skin Contact: Dusts and fibers from this product may cause temporary mechanical irritation to the skin.

Eye Contact: Dusts and fibers from this product may cause temporary mechanical irritation to the eyes.

Ingestion: Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Medical Conditions Aggravated by Exposure: Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

SECTION III - COMPOSITION INFORMATION

CAS #	Component	Weight %
65997-17-3	Glass Fiber / Powder	>85 %

Chemical Name or Composition:	Fibrous glass (composition consisting principally of oxides of silicon, calcium, aluminum, magnesium, and boron fused with amorphous vitreous state).
Other identifiers:	Not available.
• Product code:	Not available.
Substance/mixture:	Mixture.
NFPA Unusual Hazards:	None.

Component Related Regulator 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 IV - FIRST AID MEASURES

Inhalation:	If inhaled, move the affected person to fresh air. 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.
Skin contact:	For skin contact, wash with mild soap and cold water.
Ingestion:	Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention if irritation persists.
Recommendations for Immediate medical care/special treatment:	None known.



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SECTION V - FIREFIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not determined.

Upper Flammability Limit: None.

Lower Flammability Limit: None.

Flammability Classification: Non-flammable.

Extinguishing media:	Dry chemical, foam, carbon dioxide, and water fog.
Unusual Fire & Explosion Hazards:	None known.
Firefighting instructions:	Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire.
Hazardous Combustion Products:	Primary combustion products are carbon monoxide, hydrogen, carbon dioxide, ammonia, and water. Other undetermined compounds could be released in small quantities.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions/emergency procedures:	No special precautions required.
Environmental precautions:	No special precautions required.
Cleanup procedures:	Scoop up material and put into a suitable container for disposal as a non-hazardous waste. Do not use compressed air for cleaning.
Containment Procedures:	This material will settle out of air. If concentrated on land, it can then 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.
Response Procedures:	Isolate area. Keep unnecessary personnel away.
Special Procedures:	None.

SECTION VII - HANDLING AND STORAGE

Handling procedures.	Keep product in its packaging, if practicable to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap materials. Wear PPE.
Storage Procedures:	No special procedures.
Incompatibility (materials to avoid):	None known.

SECTION VIII - EXPOSURE CONTROL /PERSONAL PROTECTION

Exposure Guidelines:

A: General Product Information: Follow all applicable exposure limits.

B: Exposure Limits

Fiber Glass (crushed/shredded continuous filament) (65997-17-3)

CAS # 65997-17-3	OSHA PEL 8 Hr TWA	ACGIH TLV (8-hr TWA)
Non-Respirable fiber and particulate	15 mg/m ³	5 mg/M ³
Respirable particulate	5 mg/m ³	None Established

OSHA permissible exposure limits: Particulate.
TWA: 15.0 mg/m³ (total dust).
TWA: 5.0 mg/m³ (respirable fraction).

Ventilation: There is a possibility of high particulate exposure levels when working with this product. At a minimum, local exhaust and/or general dilution ventilation should be provided as necessary to maintain exposures below regulatory and recommended limits. Dust collection systems must be used in transferring operations, cutting or machining or other dust generating processes because of anticipated dust levels. Vacuum or wet-cleanup methods should be used.

Hand protection: Wear gloves to prevent contact with rough laminate edges.

Eye/ Face protection: Wear safety glasses, goggles, or face shield.

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 must be worn when using this material. Because of the possibility of high particulate levels occurring with this product, it may be necessary to use a half face respirator with P100 or HEPA filters during operations such as maintenance, clean up, or transferring. This decision should be made on a case-by-case basis depending on total exposures. Use respiratory protection in accordance with your company's respiratory protection program, local regulations, and OSHA regulations under 29 CFR 1910.134.

Body protection: Use gloves. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist, and between the fingers. If exposed to dust, wash with soap and water to remove any material from the skin.

Foot protection: Safety shoes recommended.

General hygiene/safety measures: Wear protective clothing as necessary to prevent contact. Normal work clothing (long-sleeved shirts and long pants) are recommended. Where direct contact or handling causes airborne product, the use of gloves and coveralls is recommended. Wash soiled clothing immediately. Vent containers before melting the material.

Skin Protection: Normal work clothing (long sleeved shirts and long pants) is recommended. Use gloves. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers. Where direct contact or handling causes airborne product, the use of gloves and coveralls is recommended.

SECTION IX - PHYSICAL DATA

Appearance:	White to gray powder.
Odor:	Odorless.
Odor threshold:	Not applicable.
pH:	Not applicable.
Melting point:	>800 C
Boiling point:	Not applicable.
Flash point:	Not applicable.
Flammability:	Not applicable.
Lower explosion limit:	Not available.
Upper explosion limit:	Not available.
Autoignition:	>450 F.
Decomposition temperature:	Not applicable.
Vapor pressure:	Not applicable.
Specific gravity:	2.55-2.58
Vapor density:	Not applicable.
Partition coefficient n-octanol/water:	Not applicable.
Viscosity:	Not applicable.
Solubility in water (% by weight):	Insoluble.
Evaporation rate (butyl acetate = 1):	Not applicable.

Physical Properties: No additional information available.

SECTION X – CHEMICAL STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions of storage and use.
Chemical stability:	Stable under normal conditions of storage and use.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	None known.
Incompatibility (materials to avoid):	None known.
Hazardous decomposition products:	None, except in fire.
Hazardous Polymerization:	Will not occur.

SECTION XI - TOXICOLOGICAL PROPERTIES

Acute Effects:

General Product Information:

Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach, and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. People with pre-existing respiratory conditions, may have trouble breathing, congestion and chest tightness.

Carcinogenicity:

Fiber Glass Continuous Filament:

The International Agency for Research on Cancer (IARC) in June 1987, categorized fiberglass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiberglass continuous filament as a possible, probable, or confirmed cancer-causing material. This conclusion was confirmed by IARC in October 2001.

The American Conference of Governmental Industrial Hygienists (ACGIH) A4 classification, not classifiable as a human carcinogen, for Respirable continuous filament glass fibers is based on inadequate data in terms of its carcinogenicity in humans and/or animals.

For Respirable continuous filament glass fibers, a TLV-TWA of 1 fiber/cc was adopted to protect workers against mechanical irritation. The TLV-TWA of 5 mg/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.

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. Persistent Respirable glass fibers are suspected to cause cancer. NIOSH defines "Respirable fibers" as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of > 5:1 (length-to-width ratio).

Component Carcinogenicity:

Fiber Glass (crushed/shredded continuous filament) (65997-17-3)

ACGIH: A4 – Not classifiable as a human carcinogen. IARC: Group 3 "not classifiable as to its carcinogenicity to humans" June 1987 meeting.

SECTION XII - ECOLOGICAL INFO

No information available for this product. This product is not anticipated to harm animals, plants, or fish.

SECTION XIII - DISPOSAL CONSIDERATIONS

General Product Information:	Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.
Component Waste Numbers:	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions:	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

SECTION XIV - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Not regulated for transport.
Hazard Class: None.
UN/NA #: None.
Packing Group: None.
Required Label(s): None.

TDG:

Shipping Name: Not required for transport.
Hazard Class: None.
UN/NA: None.
Packing Group: None.
Required Label(s): None.
Additional Info: None.

Additional Transportation Regulations:

No additional information available.

SECTION XV - REGULATORY INFORMATION

General Product Information:	No additional information available.
Component Analysis:	No additional information available.

The following is provided to aide in preparation of SARA 311 and 312 reports:

SARA 311/312

Acute Health Hazard	Yes.
Chronic Health Hazard	No.
Fire Hazard	No.
Sudden Release of Pressure Hazard	No.
Reactive Hazard	No.



Clean Air Act

The following components appear on the Clean Air Act-1990 Hazardous Air Pollutants List: None

State Regulations:

A: General Product Information: No additional information available.

B: Component Analysis- State

The Following components appear on one or more of the following state hazardous substances lists:

Fiber Glass (as continuous filament)	CAS # 65997-17-3	CA	FL	MA	MN	NJ	PA
Reactive Hazard		No	No	No	No	No	No

Other Regulations:

A: General Product Information: No additional information available.

B: Component Analysis- Inventory

Component	CAS #	TSDA	DSL	New Zealand	Aus	Miti Japan	EINECS
Fiber Glass (continuous Filament)	65997-17-3	Yes	Yes	Yes	Yes	No	Yes

C: The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List: None.

WHMIS Status: Not controlled WHMIS.

Classification: None.

SECTION XVI - OTHER INFORMATION

Revision Date: 04/17/2023

- **Date of previous issue:** 04/17/23
- **Version:** 1
- **United States**

Disclaimer:

Reasonable care has been taken in the preparation of this information, the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the user. No warranty is expressed or implied, and the manufacturer's sole responsibility shall be to replace such quantity of the material proven to be defective