

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)



StrataFleece GF

Version: 1

Revision date: 01/01/2023

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ROVING SAFE USE INSTRUCTIONS

For continuous fiberglass products

In accordance with the requirements of OSHA HazCom Standard 29 CFR 1910.1200 (g) and GHS Rev 06, as well as the European Regulation (ER) on Chemicals No. 1907/2006 (REACH) applied since June 1, 2007, the Material Safety (MSDS) is required only for substances and preparations. The continuous glass fibers that our company manufactures are defined as "articles" under the OSHA and REACH regulations, therefore they do not require MSDS.

In order to ensure the acquisition of information on the proper handling and use of our customers' fiberglass products, Jushi Group provides customers with safe use instructions.

SECTION 1: PRODUCT IDENTIFICATION

Trade name: StrataFleece GF

Relevant identified uses of the substance or mixture and uses advised against:

No relevant information available.

Product Description: Continuous Fiberglass Products, including Assembled Roving, Direct Roving, Dry Cut Fiber, Wet Cut Fiber, Flame Retardant Fiberglass, Roving Fabrics, Powder Mat, Emulsion Mat, Yarn Glass Filaments, Cakes Tradeable Glass, Cut Strands, Roving Tecturizados and Fiber Grinding.

Supplier Data and Safety Data Sheet

SECTION 2: HAZARDS IDENTIFICATION

Regarding their composition, these products are defined as articles and are not classified as hazards according to OSHA HazCom Standard 29 CFR 1910.1200 (g), European Directives 67/548 / EEC and 99/45 / EC, ST / SG / AC.10 / 30 / Rev6 and its latest modifications.

Fiberglass products do not contain dangerous substances that can be released under normal or reasonably foreseeable conditions. The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard classification and labeling :

Classification		Tagged				Hazard classification codes
Danger Class	Category dangerous	Pictogram		Identifying word	Hazard statement	
		GHS	Regulation UN			
Acute Toxicity	Oral	No pictogram	Not required	Warning	It can be harmful in case of ingestion.	H303
	Dermal				May be harmful in contact with skin	H313
	Inhalation				May be harmful if inhaled	H333
Skin Irritation	3	No pictogram	Not required	Warning	It causes mild skin irritation.	H316
Eyes Irritation	2B	No pictogram	Not required	Warning	Causes eye irritation	H320

Caution statements:

P280 - Wear protective gloves / protective clothing / eye protection / face protection.

P264 - Wash thoroughly after handling.

Unknown acute toxicity: This value refers to the knowledge of established and known toxicological or ecotoxicological values. 0% of the mixture consists of one or more components of unknown toxicity.

Classification System: NFPA / HMIS Definitions: 0-Minimum, 1-Slight, 2-Moderate, 3-High, 4-Extreme.

NFPA Ratings (scale 0-4)

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Health = 0
Fire = 0
Reactivity = 0
HMIS classification (scale 0-4)
Health = 0
Fire = 0
Reactivity = 0
Unclassified Hazard (s) (HNOC): None known.

SECTION 3: COMPOSITION / INFORMATION OF COMPONENTS

Products Composition:

Product Name	Glass, %	Sizing, %	Binder, %	Water, %
Roving Assembled	98.75±0.75	1.05±0.75	/	≤0.20
Roving Direct	99.28±0.58	0.62±0.48	/	0.10±0.1
Dry staple fiber	99.08±0.82	0.82±0.75	/	≤0.10
Wet staple fiber	89.90±2.10	0.10±0.10	/	10.0±2.0
Flame retardant fiberglass	99.08±0.82	0.82±0.75	/	≤0.10
Roving fabric	99.33±0.53	0.57±0.43	/	0.10±0.1
Mat powder	95.40±2.95	0.85±0.50	3.65±2.35	0.10±0.1
Mat emulsion	94.85±1.80	0.85±0.50	4.20±1.20	0.10±0.1
Yarn	98.90±0.30	1.00±0.20	/	0.10±0.1
Cut strands	88.50±3.50	/	/	11.5±3.5
Marketable Glass Cake	99.45±0.25	0.45±0.15	/	0.10±0.1
Roving textured	99.55±0.35	0.35±0.25	/	0.10±0.1
Ground fiber	98.98±0.82	0.82±0.75	/	≤0.20

CAS No.:

Video fiber: 65997-17-3 Sizing: N / A

Sizing:

Sizing is a mixture of chemicals applied to the surface of the fiberglass. It is mainly composed of high molecular weight polymers of no reactivity (generally natural ingredients, such as starch), which are not listed in the EINECS or ELINCS appendices.

In some cases, the size may also contain substances from the organic family of silane or other substances. The manufacturer considers this risk as insignificant, although it appears as a dangerous substance, its concentration is extremely low (less than 0.1% of the total weight) and they polymerize during the production of glass fibers.

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SECTION 4: FIRST AID

DESCRIPTION OF FIRST AID MEASURES:

Inhalation: In case of inhalation, immediately remove the affected person to fresh air. If irritation persists, get medical help.

Skin contact: If skin irritation occurs, rinse with soap and water. Make sure you rinse it off with lukewarm water as hot water will open up the pores of your skin and allow the fiber to penetrate deeper.

If the fiberglass penetrates the skin, use a wash cloth to help remove it. To avoid further irritation, do not rub or scratch the affected skin. If irritation persists, get medical help. Make sure that they refrain from using compressed air to remove glass fiber from the skin.

Eye contact: Immediately flush eyes with clean water for at least 15 minutes. If irritation persists, get medical help.

Ingestion: Normally, ingestion of this material is unlikely. If it occurs, monitor the person for several days to make sure that there are no gastrointestinal complaints. Do not let the person vomit. If the disturbance persists, get medical help.

Information for the Physician:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: FIRE FIGHTING MEASURES

Continuous glass fiber products are neither flammable nor fireproof.

Only size and packaging materials are combustible and may release small amounts of hazardous gas in the event of exposure to prolonged high heat or fire.

Hazardous Combustion Products:

The main products of combustion are carbon monoxide, hydrogen, carbon dioxide, and water. Other indeterminate compounds can be released in small amounts.

Fire fighting methods:

Suitable extinguishing agents: Use environmentally friendly fire fighting measures such as dry chemicals, foam, carbon dioxide, and water.

Specific hazards arising from the substance or mixture: No further relevant information available.

Recommendations for firefighters:

Protective Equipment: As in any fire, wear self-contained breathing apparatus on demand for pressure (NIOSH approved or equivalent) and full protective equipment to avoid contact with skin and eyes.

SECTION 6: IN CASE OF ACCIDENTAL SPILL

Personal precautions, protective equipment and emergency procedures:

Wear protective gear. Avoid contact with skin and eyes.

Environmental precautions: Do not allow to fall into sewers / surface or groundwater.

Methods and materials for containment and cleaning up: Dispose of collected material in accordance with regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Try to avoid damaging the packaging material and keep the product in its packaging to minimize the generation of dust.

Maintain a clean work environment and avoid the generation of fiberglass fragments by improper handling.

Explosion and Fire Protection Information: No special measures required.

Conditions for safe storage, including incompatibilities: Storage

Requirements to be met by warehouses and receptacles: Keep the product in its packaging to minimize the potential generation of dust.

Information about storage in a common storage facility: Not required

Other information on storage conditions: None.

Specific end uses: No other relevant information available.

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SECTION 8: EXPOSURE CONTROL - PERSONAL PROTECTION

Additional information on technical systems design: No further data; see section 7.

control parameters:

Occupational exposure limits

Additional information: The lists valid at the time of creation of this SDS have been used as a basis.

Exposure controls: Continuous glass fibers are not breathable. However, certain mechanical processes can generate dust or fibers in the air. The occupational exposure limits listed below apply to airborne fiber exposure and / or dust exposure.

Exposure limits:

NOTE: The user of continuous fiberglass products must comply with national regulations on the protection of occupational health. Occupational exposure limit values in some European countries are illustrated below. (8-hour workday)

	Breathable dust	Total dust	Breathable fiber
ACGIH	3 mg/m ³	10 mg/m ³	1fibra/ml
Austria	6mg/m ³	/	0.5fibra/ml
Denmark	5 mg/m ³	10 mg/m ³	1fibra/ml
Finland	/	10 mg/m ³	1fibra/ml
France	/	10 mg/m ³	1fibra/ml
Germany	3 mg/m ³	4 mg/m ³	0.25fibra/ml
Ireland	5 mg/m ³	/	2fiber/ml
Italy	3 mg/m ³	10 mg/m ³	1fibra/ml
Holland	2 mg/m ³	10 mg/m ³	1fibra/ml
Norway	5 mg/m ³	10 mg/m ³	1fibra/ml
Portugal	/	4 mg/m ³	1fibra/ml
Spain	3 mg/m ³	10 mg/m ³	1fibra/ml
United Kingdom	5 mg/m ³	10 mg/m ³	2fibra/ml
China	/	3 mg/m ³	/

Personal protective equipment:

General Protection and Hygiene Measures:

The usual precautionary measures for handling chemical products must be followed. Keep away from food, drinks and feed.

Take off all dirty and contaminated clothing immediately and wash it before reuse.

Wash your hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Engineering Control :

Production areas are closed and the required relative humidity is maintained. Body Protection : Normal loose work clothing (long sleeved shirts and long pants) is recommended. Skin irritation occurs mainly in the contact areas, such as around the neck and waist.

Breathing equipment: Wear a suitable mask when working in an environment where the dust concentration is high.

Protection of hands:



Protection gloves

Eye protection:



Well sealed glasses

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

General Information	
Appearance	
Format	Solid
Colour	Mainly white or off-white
Odour	Odorless
Odour threshold	Undetermined
pH	Not applicable
Status Change	
Melting point	> 800°C
Boiling point	Not applicable
Flash point	Not applicable
Flammability (solid, gas)	Not applicable
Ignition temperature	Not applicable
Temperature decomposition	Not applicable
Self-flammability	The product is not self-flammable
Risk of explosion	The product does not present an explosion hazard
Explosion limits	Inferior: 0.0 Vol % Superior: 0.0 Vol %
Vapour pressure	Undetermined
Relative density	2.6 times that of water
Relative vapour density	Not applicable
Evaporation percentage	Undetermined
Solubility in water	
Water	No miscible
Partition Coefficient (n-octanol / water)	Undetermined
Viscosity	
Dynamic	Undetermined

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Kinetics	Undetermined
VOC content	Undetermined
Other information: No further relevant information available	

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical stability: Stable under normal conditions. Thermal decomposition / conditions to avoid: No decomposition if used according to specifications.

Possibility of hazardous reactions: No known dangerous reactions known.

Conditions to avoid: None

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Primary irritant effects:

On the skin: Irritant to the skin. About the eyes: Irritant effects Additional toxicological information: carcinogenic categories:

- IARC (International Agency for Research on Cancer): Substance not listed.
- NTP (National Toxicology Program): Substance not listed.
- OSHA-Ca (Occupational Safety & Health Administration): Substance not listed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General Notes: Not known to be dangerous to water.

Results of PBT and vPvB assessment:

BT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

SECTION 13: AVAILABLE CONSIDERATIONS

RCRA Risk level: Not dangerous. The European waste code is 101103.

Waste treatment methods

Recommendation: Dispose of waste in accordance with environmental regulations.

Uncleaned packaging

Recommendation: Disposal must be carried out in accordance with official regulations.

SECTION 14: TRANSPORTATION INFORMATION

UN number: DOT, ADR / AND, AND, IMDG, IATA: Unregulated material. UN Denomination for shipments: DOT, ADR / ADN, AND,

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IMDG, IATA: Unregulated material.
Transport hazard class: DOT, ADR / ADN, ADN, IMDG, IATA Class: Material not regulated.
Packing group: DOT, ADR / ADN, IMDG, IATA: Unregulated material.
Environmental hazards: Not applicable.
Special precautions for user: Not applicable.
MARPOL73 / 78 IBC
Transportation to large according to Annex II of MARPOL73 / 78 and IBC code: Not applicable.
A "Regulation Model": Unregulated material.
Transport instructions: Avoid rolling and damping during transit.

SECTION 15: REGULATORY INFORMATION

Specific safety, health and environmental regulations / legislation for the substance or mixture:

SARA (Superfund Amendments and Reauthorization)

Section 355 (extremely hazardous substances): The substance not listed.

Section 313 (List of Specific Toxic Chemicals): Substance not listed.

TSCA (Toxic Substances Control Actions): Substance not listed.

California Proposition 65

Chemicals known to cause cancer: Substance not listed. Chemicals that cause reproductive toxicity in women.: Substance not listed.

Chemicals causing reproductive toxicity in men: Substance not listed.

hemicals that cause developmental toxicity: Substance not listed.

New Jersey Right to Know List: Substance not listed.

New Jersey Special Hazardous Substance List: Substance not listed.

ennsylvania Right-to-Know List: Substance not listed.

Pennsylvania Special Hazardous Substance List: Substance not listed.

Carcinogenic categories

EPA (Environmental Protection Agency): Substance not listed.

TLV (Limit value established by ACGIH): Substance not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance not listed.

hemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

National inventory of chemical products: In accordance with the regulations applied with respect to the commercialization and use of chemical products in the countries where our Jushi products are manufactured, each chemical ingredient of these finished products must be listed in the National Inventory of Chemical Products of the specific country where the products are produced.

Continuous fiberglass products are "items" in the chemical inventories listed below: The European Inventory of Existing

Commercial Chemical Substances: EINECS, The US EPA Toxic Substance Control Act: TSCA,

The Canada Domestic Substances List: DSL,

The Japanese Chemical Substances Control Law under METI: CSCL, The Australian Inventory of Chemical Substances: AICS,

New Zealand Inventory of Chemicals: NzIoC,

The Philippine Inventory of Chemicals and Chemical Substances: PICCS, The Korean Existing Chemicals List: (K) ECL and

Inventory of Existing Chemical Substances Produced or Imported in China: IECSC.

SECTION 16: OTHERS INFORMATIONS

The information and recommendations in this safety data sheet are, to our knowledge, accurate as of the date of issue. Nothing contained herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

Preparation / last revision date: 16/11/2017 / 6

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

AND: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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IMDG : International Maritime Code for Dangerous Goods DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH : American Conference of Governmental Industrial Hygienists

CAS : Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS : Hazardous Materials Identification System (USA)

PBT : Persistent, Bioaccumulative and Toxic vPvB : very Persistent and very Bioaccumulative

NIOSH : National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration

TLV : Threshold Limit Value

Disclaimer:

Reasonable care has been taken in preparing this information, but the manufacturer makes no warranty of accuracy or any other warranty, expressed or implied, regarding this information. The manufacturer is not responsible or assumes any responsibility for direct, incidental or consequential damages resulting from its use.

Supplied by:

Strata Waterproofing

Unit 3, Kilwee Business Park, Upper Dunmurry Lane Dunmurry, Belfast, BT17 0HD

United Kingdom

Tel: 028 9030 2924

Email: info@stratawaterproofing.com

www.stratawaterproofing.com