Introduction
Continuous glass fiber products are articles under EU regulation (REACH & CLP), and therefore, no MSDS is legally required.

Insulcon decides to continue to provide this information to assure safe handling and use of continuous glass fiber products. This MSDS was revised in accordance with GHS.

Conforms to REGULATIONS (EC) No 1907/2006 (REACH), (EC) No 1272/2008 (CLP/GHS), (EU) No EU 2020/878

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Name of product:
CONTINUOUS GLASS FIBER FILAMENT

1.2 Product description:
Article

Other means of identification:
High silica glass fibre
High silica glass fibre plied yarn
High silica glass fibre textured yarn
High silica glass fibre chopped strands
High silica glass fibre fabric
High silica glass fibre mesh
High silica glass fibre needled mat

Recommended use:
Industrial applications

1.3 Identification of the suppliers

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2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Classification of the substance or mixture

Product definition: Article

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:
Not classified

High silica glass fibre and articles are not classified as hazardous.
No hazardous substances according to RoHS Directive 2017/2102/EU.

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2.2 Label elements

Signal word:	No signal word
Hazard statements:	No known significant effects or critical hazards
Precautionary statements Prevention:	Not applicable
Response:	Not applicable
Storage:	Not applicable
Disposal:	Not applicable
Supplemental label elements:	Not applicable
Annex XVII restrictions on manufacture, placing on the market and use of certain dangerous substance, mixtures and articles:	Not applicable
Special packaging requirements:	Not applicable
Containers to be fitted with child -resistant fastening:	Not applicable
Tactile warning of danger:	Not applicable

2.3 Other hazards

Material is not an electrical conductor and may accumulate static charge.

3. HAZARDS IDENTIFICATION

Material is not an electrical conductor and may accumulate static charge.

Product/ ingredient name	Identifiers	%	Classification		Type
			Directive 67/548/EEC	Regulation (EC) No.1272/2008 [CPL]	
Fibrous glass, continuous filament	Not classified	> 99.8	Not classified	Not classified	[A]
Binder/Sizing	Not classified	< 0.2	Not classified	Not classified	[C]

Type: [A] Constituent
[B] Impurity
[C] Stabilizing additive

Occupation exposure limits, if available, are listed in Section 8

4. FIRST AID MEASURES

Description of first aid measures

Eye contact:

Flush in running water (for at least 15 minutes) and consult a doctor if necessary.

Inhalation:

Remove from the scene of exposure to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

LEADER IN HIGH TEMPERATURE SOLUTIONS

SAFETY DATASHEET

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Skin contact:
Remove contaminated clothing and shoes. Wash copiously with lukewarm soapy water without rubbing excessively. If irritation persists, seek medical attention.

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 advice/attention.

Protection of first aiders:
No action shall be taken involving any personal risk or without suitable training.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agent:
Any of the extinguishing agents, including water, carbon dioxide gas, foam, dry chemicals and powder are effective. Select an extinguishing agent depending on circumstances (source of fire, etc.).

Suitable extinguishing method:
Use any of the ordinary fire extinguishing methods.

Other information:
High silica glass fibre and high silica glass fibre articles are not combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Wear a safety mask, safety gloves and safety goggles.

Environmental precautions
No special environmental precautions required.

Clean up Method:
If spilled on the floor, clean quietly so that dust particles will not be dispersed and put into a container or bag. For disposal, treat it same as general industrial waste.

7. HANDLING AND STORAGE

Precautions for safe handling
Handling (Technical measures / Precautions / Safe handling advice):
It is preferable to avoid prolonged contact with the skin: wear gloves, garments with sleeves and long leggings or protective overalls, goggles and dust masks.

Storage
Technical measures:
Respect the stacking procedure recommended for each type of product.

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Storage conditions:
Store away from excessive humidity to prevent damage to the product and to the packing materials, which could lead to storage safety problems.

Incompatible material:
Not relevant.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Legal requirements for respirable and non-respirable dusts and fibre vary from Occupational Exposure country to country (or do not even exist).

The table below (prepared using
Limits: the knowledge we currently possess) shows the limits applicable in different countries for Time-Weighted Average (TWA) exposure.

Country	Dusts	TWA (Time- Weighted Average concentration) (mg/m3 for 8 hours work)	Fibre	TWA (Time- Weighted Average concentration) (Fibre/ml for 8 hours work)
Austria	fine	6	total	0.5
Belgium	total	10	no regulation	
Denmark	respirable	5	total	1
	total	10		
Finland	total	10	total	1
France	total	10	respirable	1
Germany	respirable	3	respirable	0.25
Great Britain	respirable	5	respirable	2
	total	10		
The Netherlands	respirable	2	total	2
	total	10		

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Country	Dusts	TWA (Time- Weighted Average concentration) (mg/m3 for 8 hours work)	Fibre	TWA (Time- Weighted Average concentration) (Fibre/ml for 8 hours work)
Ireland	respirable	5	respirable	2
Italy	respirable	3	total	1
	total	10		
Norway	respirable	5	total	1
	total	10		
Portugal	total	4	total	1
Spain	total	10	total	1
Sweden	respirable	5	total	1
	total	10		
Switzerland	total	6	respirable	0.5
USA	respirable	5 (OSHA)*	total	1 (ACGIH)**
	total	15 (OSHA)*		
Japan	respirable	2(JSOH)***	total	3 (RPHDD)****
	total	8 (JSOH)***		

* OSHA = Occupational Safety and Health Administration
** ACGIH = American Conference of Governmental Industrial Hygienists
***JSOH = Japan Society for Occupational Health
**** RPHDD = Regulation on Prevention of Hazards Due and Dust of Japan

Equipment measures:
Install localized ventilation units in workplaces where dusts are generated by cutting, grinding and so on, and powder products such as milled fibers are handled. If ventilation units can't be installed for some reasons, be sure to wear a dust mask (approved by the government) during work. It is also preferable to provide facilities for washing the face and the body, gargling, changing and washing clothes.

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Protective gear:
Use the following protective gear as necessary in view of the conditions in the workplace environment.

Respiratory protection:
Dust mask (approved by the government authorities: replaceable / one-way).

Hand protection:
Gloves such as leather which don't allow glass fiber to pierce.

Eye protection:
Safety glasses (goggle type).

Skin and body protection:
Loose-fitting top garment with long sleeves and collar (tightened cuffs) and long pants (tightened at the ankles).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Form:	Continuous or chopped or weaved or mats of fibre made up of continuous, parallel filaments holding together.
Colour:	White or yellowish white
Oduor:	Odourless
Oduor threshold:	Not available
pH:	Not applicable
Softening point:	Littleton point (defined as the temperature for which the viscosity of glass is $10^{7.65}$ Poises): approximately 1250°C.
Melting point:	Not applicable. Glass does not melt, but the viscosity decreases by elevation of temperature and is 10^3 for high silica glass in a range of temperature between 1650°C and 1750°C (fiberizing temperature).

Initial boiling point and boiling range: Not available

Flash point:	Not applicable (Product does not sustain combustion)
Evaporation rate:	Not available

Material supports combustion: Flammability (solid, gas): Upper/lower: Not available
Flammability or explosive limits: Not applicable

Relative density:	2.65 to 2.70
Solubility (-ies):	Very low solubility in water. Sizes can be partially (and even totally) dissolved in most organic solvents.

Partition coefficient n-octanol/Water: Not available

Auto-ignition temperature:	Not available
Decomposition temperature	Only size products start to decompose at 200°C
Viscosity:	Not applicable
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable

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10. STABILITY AND REACTIVITY

Chemical Stability:	The products are stable
Possibility of Hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials:	None known.
Hazardous decomposition products:	In continuous combustion conditions, in addition to water vapor and CO2, small quantities of CO and NOx may be released from the combustion of the size. Other products may be released in limited quantities, depending on combustion conditions. This is why it is recommended to use hightemperature gas masks, when fighting intense fires (see paragraph 5).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not applicable. The International Agency for Research on Cancer (IARC) classes glass fiber into category 3 (No classification exists regarding its carcinogenicity in humans.)
Reproductive Toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available

When glass fibre are chopped, milled or sanded they are cut perpendicular to strand length and no smaller diameters filaments are generated. Conversely, significant quantities of dust can be generated, which is why it is recommended to use personal protection.

Handling glass fibre:
In dusts, also present in some products (chopped strands, milled fibre), some studies have shown very low quantities of particles with fibrous aspects (l/d>3), short (but nevertheless longer than 5 µm) and with an apparent diameter of under 3 µm. Quantities measured in work atmospheres are 50 to 100 times lower than all the limits fixed for respirable fibre, but when there is a high risk of dust generation it is strongly recommended to wear masks.

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12. EGOLOGICAL INFORMATION

Toxicity:	Not available
Persistence and degradability:	Not available
Bio accumulative potential	Not available
Mobility in soil	
Soil/water partition coefficient (KOC)	Not available
Mobility:	Not available
Results of PBT and vPvB assessment	
PBT:	No
vPvB:	Not available
Other adverse effects:	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Depending on local regulations, glass fibre wastes can either be considered as inert waste or as common industrial waste. The generation of waste should be avoided or minimized wherever possible.

High silica glass fibre and high silica glass fibre articles
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. As such they can be buried in landfills approved for these categories.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging:
Clean cardboard, wood, plastic (film) and packaging can be eliminated in units specific to these products (i.e., for recycling or use as fuels).

14. TRANSPORT INFORMATION

	ADR/RID	AND	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-	-
Transport Hazard class	-	-	-	-
Packing group	-	-	-	-

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	ADR/RID	AND	IMDG	IATA
Environmental hazards	No	No	No	No
Marine pollutant substances	Not applicable	Not applicable	Not applicable	Not applicable
Additional information	None identified	None identified	None identified	None identified

Spectial precautins for user:
Transport within user's premises – always transport in closed containers that are upright and secure.

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV – List of substances subject to authorization
No SVHC`s normally expected above 0,1 % w/w

Annex XIV
None of the components are listed
Substances of very high concern
None of the components are listed

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not applicable

Chemical Safety Assessment
No Chemical Safety Assessment has been carried out

16. OTHER INFORMATION

This Material Safety Data Sheet is in addition to the Product Specification file and other technical documents issued by Insulcon, but does not replace them.

The information given by this document is based on the best knowledge at the moment. It is given in good faith. Furthermore, user attention is drawn to the possible risks run when the product is used for any purpose other than the one for which it was designed.

This MSDS does not exempt users from knowing and applying the rules regulating their activities. Users assume full responsibility for applying the appropriate safety measures when the product is used.

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