

SAFETY DATA SHEET

for New Zealand market

Section 1. Identification of the material and the supplier

Product:	GlasGrid
Product Use:	The products are composed of glass filaments above 3µm in diameter, consequently not reach the lower respiratory tract and therefore have no possibility of causing serious pulmonary disease.
Manufacturer:	Saint-Gobain ADFORS 517, avenue de la Boisse F-73000 Chambéry Cedex France Ph: +33 4 79 68 32 20
New Zealand Supplier:	Geofabrics New Zealand Ltd 14 Goodman Place Penrose Auckland 1061, New Zealand Ph: +64 9 634 6495
Emergency Telephone:	0800 764 766 (National Poison Centre)
Date of SDS Preparation:	1 December 2017
Date of SDS Expiry:	1 December 2022

Section 2. Hazards Identification

This substance is NOT hazardous according to the Hazardous Substances (Classification) Notice 2017 and is considered a Manufactured Article.

Section 3. Composition / Information on Hazardous Ingredients

These articles are mixtures of E GLASS or C GLASS in the form of continuous filaments and a SIZE with, in addition, a BINDER or COATING.

The CAS number of glass filaments is 65997-17-3 (corresponding to the oxides used for production).

E GLASS is a glass with a very low alkaline content.

C GLASS is a glass with very high alkaline content and low aluminium oxide content.

SIZE is a mixture of chemicals applied to the glass filaments in a maximum quantity of 3% - more generally between 1% and 1.5% by weight.

Most of this mixture is made up of basically non-reactive high molecular weight polymers, often natural ingredients (starches) or polymers with reactive sites or containing reactive monomers.

A second type of ingredient (sometimes present in almost all sizes) is a member of the organo-silane family requiring "hazardous product" labelling. The manufacturer considers this risk as negligible as, although listed as dangerous products, the concentration is extremely low and they are polymerised during the production of glass filaments.

Other products can be used in sizes often acting as lubricants.

BINDERS in case of glass veils are water based phenol-formaldehyde (PF), melamine-formaldehyde (MF), urea-formaldehyde (UF), or polyvinyl, acrylic resins, other latex emulsions, starch, other bio sourced raw materials or blends of these binders. Their content in the glass veil is between 5 and 30 % by weight. Binders can contain black or yellow dyes.

No BINDER nor impregnation in case of Glass Loose Fibers and some TECO Fabrics (Greige fabrics, Caramelized fabrics)

COATING in case of glass veil are mineral based.

Calcium carbonate (CAS 1317-65-3) content < 80% by weight

Metal hydroxides (CAS1318-23-6 ; CAS 1309-42-8) content < 20% by weight.

COATING in case of grinding wheels are generally phenolic resins, and some polyurethane resins. Their content in the final product keeps the range 26 – 33 % by weight, in cases of certain products the content can reach 50 %.

COATING in case of wall covering, mesh, RECO/E-fabrics, laid scrim and TwinFab are polyvinyl alcohol (laid scrim), ethyl vinyl acetate polymer (wall covering, RECO/E-fabrics) and water dispersion of styrene-butadiene (mesh fabrics, TwinFab) coatings.

COATING in case of insect screens is PVC based coating with PVC plasticizer. Polyvinyl Chloride (CAS 9002-86-2) content < 40 % by weight

Di-isononylphtalate (CAS 28553-12-0) content < 20 % by weight

COATING in case of glass reinforcement grid is Polymer binder-acrylic copolymer and Carbon Black

Carbon Black (CAS 1333-96-4) content <0.2% by weight.

Hazardous substances potentially released from the products:

Product	Binder	Coating
Glass veils	Formaldehyde content < 0,1 % by weight*	No hazardous substances
Glass veils (AF; AG; AP; AT; AW; PA; S)	Formaldehyde under detection level*	
Grinding wheels	No hazardous substances	Phenol content < 1 % by weight Formaldehyde <0,1% Methanol <0,1% Methenamine <0,1 %

Section 4. First Aid Measures

Routes of Exposure:

- If in Eyes Once a dust particles enters into eyes, rinse opened eye for several minutes under running water and consult a doctor if necessary. Do not rub.
- If on Skin In case of exposure to dust and consequent irritation immediately wash with water and soap and rinse thoroughly. Do not rub or scratch affected areas. If skin irritation continues, consult a doctor.
- If Swallowed Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
- If Inhaled Supply fresh air; consult a doctor in case of complaints once exposed to dusty environment.

Section 5. Fire Fighting Measures

Hazard Type	In case of fire, glass filaments are not flammable, are incombustible and don't support combustion.
Hazards from combustion products	Only the packaging (plastic film, paper, cardboard, wood) and the small amounts of size or binder/PVC coating are combustible and could release some hazardous gases.
Suitable Extinguishing media	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Precautions for firefighters and special protective clothing	Do not inhale combustion gases. Wear fully protective suit including the SCBA (Self-Contained Breathing Apparatus).
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Just in case of dusty environment, avoid contact with the skin and the eyes.

No special measures required – all sorts of glass wastes are considered as Inert Industrial Wastes, or Common Industrial Wastes except for glass filament impregnated weaves for the abrasive industry (Grinding Wheels) which may be classified as Hazardous waste depending on local legislative standards.

Vacuum clean, sweep or shovel into containers normally used for glass filament waste (selective collection).

Section 7. Handling and Storage

Precautions for Handling:

- It is preferable to avoid prolonged contact with the skin: wear the protective equipment
- Prevent and minimize the dust formation during the processing of products.
- Provide local exhaust ventilation (LEV) if dust is formed on the processing machinery.

Precautions for Storage:

- Respect the stacking procedure recommended for each type of product.
- Store away from excessive humidity to prevent damage to the product and to the packing materials which could lead to storage safety problems.
- Store in a well ventilated area and keep away from direct sunbeam.

Section 8 Exposure Controls / Personal Protection

Exposure Controls

Continuous glass filaments are not respirable however certain mechanical processes might generate airborne dust or filaments (see chapter 11). Air monitoring could then be conducted to check the compliance to exposure limits applicable to generic dust or dust with no specific toxicity. In case of grinding wheels and glass veils a low amount of the chemical substances stated in the chapter "3 – Composition" may be released from the products depending on handling and process applications. Especially if the product is heated-up or stored in closed and poorly ventilated areas an exposure monitoring should be conducted.

Engineering Controls

Provide local exhaust and/or general ventilation system to maintain low exposure levels.

Personal Protection Equipment

Eyes	Safety goggles (or masks) or safety glasses.
Skin	Gloves for the hands, long-sleeved garments and long leggings to prevent irritation. People with delicate skin should apply barrier cream to exposed skin areas.
Respiratory	During operations releasing high quantities of dust, wear minimum FP1 or preferably FP2 EEC approved dust masks.

Section 9 Physical and Chemical Properties

Appearance	Solid. Rolls or strips of coated fabrics, veils, wheels cut of fiberglass grid
Colour	White or yellowish white, yellow, black, grey
Odour	By opening the packages some smell of phenol or methanol may arise (grinding wheels)
Softening Point	appr. 850 °C (E glass) and 690 °C (C glass)
pH	Not available
Boiling Point	Not available
Melting Point	165°C
Freezing Point	Not available
Flash Point	>350°C (open cup)
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Density	2.6 g / cu. cm.
Specific Gravity	Not available
Water Solubility	Very low solubility in water. Sizes and impregnating resins can be partially (and even totally) dissolved in most organic solvents.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Only size and binder/coating products start to decompose at 200°C
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Bulk Density	903 kg/m ³

Section 10. Stability and Reactivity

Stability of Substance	Stable in normal use and storage conditions, and in normally foreseeable usage conditions. As already identified, some substances may be released during hot processes or storage.
Conditions to Avoid	None known.
Incompatible Materials	None known.
Hazardous Decomposition Products	None known.

Section 11 Toxicological Information

Glass filaments

LOCALISED EFFECTS: **possible temporary irritations**

This irritation is of a purely mechanical and temporary nature. It disappears when exposure is ended. It can affect the skin, the eyes and the upper respiratory tracts. In Europe, mechanical irritation is not considered to be a health hazard within the terms of European directives 67/548/EEC for hazardous products. This is confirmed by the fact that EC Directive 97/69/EC for mineral fibres does not stipulate the need to use an Xi (irritant) label nor a classification for continuous glass filaments.

SENSITISATION: some **allergies** to continuous glass filaments have been declared.

LONG TERM TOXICITY:

Continuous glass filaments are not respirable (i.e. do not penetrate the lung alveoli). This is because filaments are above 3µm in diameter.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	non-biodegradable
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Dispose according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

This substance is NOT hazardous according to the Hazardous Substances (Classification) Notice 2017 and considered a Manufactured Article.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.

TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Hazardous Substances (Safety Data Sheets) Notice 2017

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, Geofabrics, if further information is required.

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