

## Safe Use Instruction Sheet

Rolls, strips and sheets of PTFE coated and laminated Glass Fiber Fabric are classified as articles under European Regulation 1907/2006 (REACH) and TSCA program. Therefore no (Material) Safety Data Sheet is legally required. However Versiv has made a decision to deliver appropriate information to its customers in the safe handling and use of PTFE coated glass fabric through this **Safe Use Instruction Sheet**. This **SUIS** sheet follows the exact same format and contains the same information as required in a SDS.

Revision date: 10/11/2023 Version 6.2



### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

Commercial product name: VERSIV PTFE Coated & Laminated Glass Fabric

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Heat and Chemically Resistant Release Fabric

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer / distributor: **Versiv Composites Ltd.**

Address: Kilrush, Co. Clare, Ireland.

**1.4 Emergency Telephone number** + 353 65 90 80 100

Responsible department Quality & Technology Dept.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of substance or mixture

Not considered hazardous under recommended usage conditions

#### 2.2 Label elements

No label required

#### 2.3 Other hazards

Thermal decomposition of the PTFE coating (at temperatures well above the recommended limit) may cause polymer fume fever with flu like symptoms in humans, especially when smoking contaminated tobacco.

**Potential Health Effects:** None under recommended usage conditions

**Ingestion:** N / A under recommended usage conditions.

**Skin Contact:** N / A under recommended usage conditions.

**Inhalation:** N / A under recommended usage conditions.

**Eye Contact:** N / A under recommended usage conditions.

#### 2.4

This version of the product safety data sheet was prepared in compliance with Regulation (EC) No. 1272/2008 as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

**Product description:** Woven 'E' type fiberglass fabric coated with Polytetrafluoroethylene (PTFE) polymer

**Hazardous Ingredients:** None

Name:	CAS No.	%	Symbols & Health Risk Phrases
PTFE	9002-84-0	~ 15 - 74	-
Fiberglass	65997-17-3	~ 26 - 85	-

**3.2 Mixtures** no mixtures

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Skin:** No hazards which require special first aid. Wash with soap and water. Cool skin with cold water if contacted or burnt with high temperature fabric. Consult a physician if hot fabric sticks to the skin. Do not risk peeling off skin.

**Eyes:** N / A

**Inhalation:** N/A

**Ingestion:** N / A

**Other first aid information:** N / A

#### 4.2 Most Important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms

#### 4.3 Indication of any immediate medical attention and special treatments needed

No information available

### SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media:**

Water, Carbon Dioxide, Foam, Dry Powder.

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### 5.2 Special hazards arising from the substance or mixture

Product is physiologically inert and non-toxic at normal service temperatures (-150°C to +260°C).

#### Specific hazards during firefighting

Under fire conditions, decomposition of the PTFE could occur, with the evolution of gaseous and particulate products which are toxic and if inhaled. Hazardous thermal decomposition products include: Hydrogen fluoride, fluorinated compounds, carbon oxides

### 5.3 Advice for firefighters

#### Special protective equipment for fire fighting:

Use self-contained breathing apparatus, gloves and protective suit.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures.

The cloth is slippery. Avoid slip hazard conditions, especially when wet.

### 6.2 Environmental precautions

Stable, inert material. No special precautions required.

### 6.3 Methods and materials for containment and cleaning up

No special procedure or materials required.

### 6.4 Reference to other sections

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours) when rolling or winding the fabric.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place

### 7.3 Specific end use(s)

#### Handling precautions:

Product is physiologically inert and non-toxic at the stated service temperatures (-150°C to +260°C).

When processing e.g. machining, wear safety glasses or appropriate face shield. Local Exhaust Ventilation must be used to keep dust levels below acceptable limit. Fabric as supplied does not contain respirable fibres, but machining or cutting may produce small amounts of the latter. Do not smoke while cutting, heat sealing or fabricating material. Extract and clean any such dust or

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fumes away from the workspace. Direct skin contact with fibers glass or its dust may cause minor irritation and transitory dermatitis. Breathing fibres or dust may cause irritation of the nose and throat.

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours) when rolling or winding the fabric.

**Storage:** No special requirements.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

No special controls required

### 8.2 Exposure controls

#### Engineering controls

Adequate ventilation and local extraction must be used in high temperature use of this material. Use static dissipation equipment in situation where static electricity is likely to be generated. Extraction or ventilation must be used if machining, slitting or cutting this material.

#### Eye protection

#### Hand protection

Wear heat resistant gloves in high temperature use of this product

#### Skin and body protection

Not normally required

#### Hygiene measures

Not normally required

#### Respiratory protection

Not normally required.

Use extraction and wear a P1 dust filter mask if continuously machining or cutting large volumes of the fabric.

#### Individual protection measures

Not normally required

**Exposure controls for hazardous components:** N / A under recommended usage conditions.

#### Personal protective equipment:

None required under normal processing conditions.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

Form	Solid - Polymer coated woven fabric (composite)
Colour	various
Odour	none
Odour threshold	none
pH	neutral
Melting point	327°C (PTFE), Fiberglass (846°C)
Boiling point	Non available
Flash point	Does not flash
Evaporation rate	No evaporation loss under 275°C
Flammability (solid, gas)	Not flammable at recommended temperatures, UL 94 V-0 rated.
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure	No information available
Relative vapour pressure	No information available
Relative density	2.2 to 2.5 g/cm <sup>3</sup>
Water solubility	Not soluble in water
Partition coefficient n-octanol/water	No information available
Auto ignition temperature	No information available
Decomposition Temperature	Decomposition of the PTFE coating starts above 300°C
Viscosity dynamic	No information available

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Explosive properties Not considered explosive

Oxidising properties Not an oxidiser

**9.2 Other data** None

## SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity** non-reactive at normal temperature and pressure (-150°C to +275°C)

**10.2 Chemical stability** Very stable chemically at recommended temperatures

**10.3 Possibility of hazardous reactions** Stable under recommended storage and use

**10.4 Conditions to avoid:** Use Local Exhaust Ventilation to avoid breathing fumes evolved if processing above recommended temperature.

**10.5 Incompatible materials** none

### 10.6 Hazardous decomposition products

Decomposition of PTFE increases further above 350°C and becomes significant above 400°C. The principal gases evolved are tetrafluoroethylene (from 430°C), hexafluoropropylene (from 440°C), and perfluoroisobutylene (from 475°C). Carbonyl Fluoride is produced above 500°C which is converted to the highly corrosive hydrogen fluoride in moist air.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute oral toxicity

Acute inhalation toxicity

Chemical name	Occupational Exposure limits	Regulation
Fiberglass	5 mg/m <sup>3</sup> (Inhalable fraction)	US ACGIH (032014)
Polytetrafluoroethylene	LD50/Rat 11,280 mg/Kg	

Acute dermal toxicity This information is not available

Skin irritation Not considered as an irritant in humans, rabbit

Eye irritation Not considered as an irritant in humans, rabbit

Sensitisation Not considered as a sensitizer – patch test on humans

Germ cell mutagenicity Tests on bacterial or mammalian cell cultures did not show

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	mutagenic effects.
Carcinogenicity	Not listed under IARC
Reproductive toxicity	No toxicity to reproduction.
Teratogenicity	This information is not available
STOT-single exposure	not classified as a STOT toxicant, single exposure
STOT-repeated exposure	not classified as a STOT toxicant, repeated exposure
Aspiration hazard.	No aspiration toxicity classification

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Not considered toxic to fish

### 12.2 Persistence and degradability

Fluoropolymers and fiberglass are inert and are slow to degrade in nature

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not a suspected PBT or vPvB chemical

### 12.6 Other adverse effects

No data available

No known harmful effects on the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product** Landfill is preferred, provided it complies with local regulations. Burning is not recommended. With incineration, gaseous products should be removed by alkaline scrubbing.

**Contaminated packaging:** Dispose as solid waste according to local regulations.

## SECTION 14. TRANSPORT INFORMATION

This material is not regulated for transport

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### Land Transport (ADR/RID)

14.1 UN Number	Not applicable
14.2 UN Proper Shipping name	Not applicable
14.3 Transport Hazard Class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	Not classified as dangerous for transport

### Inland waterway transport (ADN)

Not relevant

### Air Transport (IATA)

14.1 UN Number	Not applicable
14.2 UN Proper Shipping name	Not applicable
14.3 Transport Hazard Class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	Not classified as dangerous for transport

### Sea transport (IMDG)

14.1 UN Number	Not applicable
14.2 UN Proper Shipping name	Not applicable
14.3 Transport Hazard Class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	None
14.6 Special precautions for user	Not classified as dangerous for transport

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

This product does not contain any Substances of Very High Concern and is not subject to the revised Waste Framework Directive 2008/98/EC SCIP regulations and does not require to be registered in the SCIP database.

### 15.2 Chemical safety assessment

## SECTION 16. OTHER INFORMATION



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The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

The information contained in this sheet does not constitute a hazard assessment, and should not be used in place of the user's own assessment of workplace risks as required by other health and safety legislation.

Version	1	Original	
Version	2	17/12/2012.	
Version	3	10/06/2016.	Lay-out In line with current regulations
Version	4	26/04/2018	Converted to SUI Safe Use Instruction Sheet
Version	5.0	04/01/2021	Added SCIP note section 15
Version	6.0	25/05/2022	Updated 5.2,7.3,10.6. reviewed high temperature situations
Version	6.1	10/11/2023	Update for Versiv Brand
Version	6.2	14/02/2024	Update from Saint-Gobain to Versiv