

Safe Use Instruction Sheet

Rolls, strips and sheets Versiv Adhesive Tapes) 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 decided to deliver appropriate information to its customers in the safe handling and use through this **Safe Use Instruction Sheet**. This **SUIS** sheet follows the exact same format and contains the same information as required in an SDS.

Revision date: 26/01/2024 Version 5.2



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

1.1 Product Identifier

Commercial product name:

Versiv Adhesive Tapes;
PTFE / Glass fabrics or Skived PTFE coated with Silicone or Acrylic PSA Adhesive on one face.

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

Heat and Chemically Resistant Release Fabrics or skived PTFE that can be applied to various surfaces using the PSA adhesive that is present on one face.

1.3 Details of the supplier of the safety data sheet

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

Address: Kilrush, Co. Clare, Ireland. V15NW27.

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: Contact with the pressure –sensitive adhesive side might cause skin irritation or injury.

Inhalation: N / A under recommended usage conditions.

Eye Contact: N / A under recommended usage conditions.

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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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product description: Pure PTFE (polytetrafluoroethylene) substrates or Woven 'E' type fiberglass fabric coated or laminated with PTFE polymer with added Silicone or Acrylic pressure sensitive adhesive (PSA) applied to one outer face. Supplied in roll or sheet form with a removable protective liner covering the adhesive face.

Composition

Name:	CAS No.	%	Symbols & Health Risk Phrases
PTFE	9002-84-0	~ 15 - 99	-
Fiberglass	65997-17-3	~ 0 - 60	*
Silicone or Acrylic PSA Adhesive	Proprietary	~ 10 - 30	**

Hazardous Ingredients:

*Continuous filament glass fibre (CFGF) is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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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.

5.2 Special hazards arising from the substance or mixture

Product is physiologically inert and non-toxic at normal temperatures. The liner on the adhesive face must be removed before use.

Specific hazards during firefighting

Above 275°C some decomposition of the PTFE will occur, with the evolution of gaseous and particulate products which are toxic and if inhaled, can give rise to a characteristic syndrome with influenza-like symptoms known as "polymer fume fever". These symptoms subside within 24 / 48 hours away from further exposure with no long-term effects.

Hazardous thermal decomposition products include: Hydrogen fluoride, fluorinated compounds, carbon oxides, Amorphous silica ash.

The protective liner on the adhesive face must be removed before use. This is part of the packaging and is not chemical or fire resistant. Decomposition product may be harmful.

5.3 Advice for firefighters

Special protective equipment for firefighting:

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

The PTFE side of the Chemstik is slippery. Avoid slip hazard conditions, especially when wet.

The adhesive face of the fabric may bond lightly to skin and to other objects / equipment it comes in contact with. The adhesive is covered with a protective release liner to facilitate easy handling. This liner should only be removed immediately prior to use to expose the adhesive coated surface. The chemstik product can normally be peeled off and reapplied. When peeling off the liner it is recommended to wear protective clothing and gloves to avoid skin contact.

6.2 Environmental precautions

Waste silicone Chemstik should be destroyed by incineration and not sent to landfill.

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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.

The adhesive is normally covered with a protective release liner to facilitate easy handling. This liner should only be removed immediately prior to use to expose the adhesive coated surface.

The chemstik product can normally be peeled off and reapplied. When peeling off the liner it is recommended to wear protective clothing and gloves to avoid skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, ventilated area at normal room temperature 10-30°C . Leave the liner on during storage before use. Avoid direct sunlight. Adhesive properties may decrease after 18 months.

7.3 Specific end use(s)

Handling precautions:

The PSA adhesive will lose some of its adhesion and tack properties after prolonged use at high temperature and after long periods over 18 months. At temperatures above 260°C the silicone PSA adhesive decompose slowly to give some silica ash. Acrylic adhesive also decomposes under such elevated temperature conditions.

Take necessary action to prevent and 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.

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Extraction or ventilation must be used if machining, slitting or cutting this material. Chemstik is normally supplied with a protective release liner on the adhesive face. This must be removed prior to use.

Eye protection

Hand protection

Wear heat resistant gloves in high temperature use of this product. Do not directly handle the adhesive side of the Chemstik product.

Skin and body protection

Not normally required. Wear suitable gloves and PPE to avoid skin contact with the silicone adhesive

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

9.1 Information on basic physical and chemical properties

Form	Solid - Polymer coated / laminated woven glass fabric or skived PTFE with viscous adhesive resin on one face
Colour	various (tan, brown, white, black, grey, clear etc.)
Odour	none
Odour threshold	none
pH	neutral
Melting point	327°C (PTFE), Fiberglass (846°C),

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Boiling point	Non available
Flash point	Does not flash
Evapouration rate	No evapouration loss under 275°C
Flammability (solid, gas)	Not flammable at recommended temperatures,
Lower explosion limit	No information available
Upper explosion limits	No information available
Vapour pressure	No information available
Relative vapour pressure	No information available
Relative density	2.2 to 2.5 g/cm ³
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
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

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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 when processing above 275°C.

10.5 Incompatible materials none

10.6 Hazardous decomposition products

Significant decomposition of PTFE occurs only above 300°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. Exposure to fumes generated if product is heated above 275°C may result in "Polymer Fume Fever".

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 ³ (Inhalable fraction)	US ACGIH (032014)
Polytetrafluoroethylene	LD50/Rat 11,280 mg/Kg	

Acute dermal toxicity	This information is not available
Skin irritation	Contact with the pressure sensitive adhesive side might cause skin irritation.
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 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

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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 Bio accumulative potential

See 12.5 below

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Compliant

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 disposal method for acrylic Chemstik, provided it complies with local regulations.

Silicone Chemstik should be disposed of by incineration. Burning is not recommended.

With incineration, gaseous products should be removed by alkaline scrubbing.

Contaminated packaging: Dispose of packaging and liner as solid waste according to local regulations.

SECTION 14. TRANSPORT INFORMATION

This material is not regulated for transport

Land Transport (ADR/RID)

14.1 UN Number Not applicable

14.2 UN Proper Shipping Name Not applicable

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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

15.2 Chemical safety assessment

SECTION 16. OTHER INFORMATION

This version of the product Safe Use Instruction Sheet (SUIS) was prepared in compliance with Regulation (EC) No. 1907/2006 (in particular as amended by Regulation (EU) No. 453/2010 with respect to SDSs) 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.

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

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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	30/10/2018	Converted to SUIIS - Safe Use Instruction Sheet
Version	3	30/01/2019	Added legislation changes
Version	4	20/04/2022	General revision
Version	5	11/05/2023	Chemstik brand changed to CHR, Added item families. Extraction
Version	5.1	15/12/2023	Update for Versiv Brand
Version	5.2	26/01/2024	Update brand to Versiv Adhesive Tapes