



MATERIAL SAFETY DATA SHEET

TriRoof HPX Hybrid Polymer Liquid Membrane



TriRoof HPX Hybrid Polymer Liquid Membrane

Version:0.0

Date of Issue: 27-03-2022

According to Regulation (EU) 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product form	: Mixture
Trade name	: TriRoof HPX Hybrid Polymer Liquid Membrane
Type of product	: Coating
Product group	: Trade product

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

1.2.1. Relevant identified uses

Intended for the general public

Main use category : Consumer use

1.2.2. Uses advised against

No additional information is available

1.3. Details of the supplier of the safety data sheet

Supplier

Tricel Composites (GB) Limited,
Unit A, Fox Way, Off Atkinson
Street, Leeds, West Yorkshire, LS10
1PS, United Kingdom.

Email: sales@tricelcomposites.co.uk

Emergency telephone +44 (0) 113 270 3133 (available during office hours)

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2	H319	Calculation method
Skin sensitisation, Category 1	H317	Calculation method

Full text of hazard classes and H-
statements: see section 16

Adverse physicochemical, human health, and environmental effects

May cause an allergic skin reaction. Causes serious eye irritation.

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)	:	Warning
Hazardous ingredients		1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]
Hazard statements (CLP)	:	H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.
Precautionary statements (CLP)		P102 - Keep out of reach of children.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear eye protection, face protection, and protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents and containers to a hazardous or special waste collection point, in accordance with local, regional, national, and/or international regulations.

Security closing plug for children	:	Not applicable
Tactile warning	:	Not applicable

2.3. Other Hazards			
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2.3. Other hazards			
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No additional information is available

3.1. Substances			
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Not applicable

3.2. Mixture			
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Not applicable



Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-	(CAS-No.) 1760-24-3 (EC-No.) 217-164-6 (REACH-no) 01-2119970215-39	< 2	Eye Dam. 1, H318 Skin Sens. 1, H317
Silane, ethenyltrimethoxy-	(CAS-No.) 2768-02-7 (EC-No.) 220-449-8 (REACH-no) ZL250418-16	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332
Stannane, dibutylbis[(1-oxododecyl)oxy]-	(CAS-No.) 77-58-7 (EC-No.) 201-039-8 (REACH-no) 01-2119496068-27	< 0.05	Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact irritation or rash occurs:	: Wash skin with plenty of water. Take off contaminated clothing. If skin Get medical advice/attention.
First-aid measures after eye contact lenses, if present and easy to	: Rinse cautiously with water for several minutes. Remove contact do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison centre or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	:
May cause an allergic skin reaction. Symptoms/effects after eye contact	:
Eye irritation.	

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2

Hazardous decomposition products in case of fire



5.3 Advice for firefighters

Protection during firefighting

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spilt into the absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the workstation. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Incompatible materials : Heat sources. Direct sunlight.

7.3.

No additional information is available

8.1. Control parameters

Stannane, dibutylbis[(1-oxododecyl)oxy]- (77-58-7)

Japan Exposure limits (ACGIH) TWA 0.1 mg/m³, STEL 0.2 mg/m³ (as Sn) (Skin)

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the workstation. Hand protection :
Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls : Avoid release to the environment.



SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous liquid.
Colour	: Grey/White.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available Melting point: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour presufre	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.44 g/ml
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 10000 - 20000 cP
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information is available

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage, and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions are known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information is available



10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]- (1760-24-3)

LD50 oral rat	2995 mg/kg
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LD50 dermal rat	> 2000 mg/kg
Stannane, dibutylbis[(1-oxododecyl)oxy]- (77-58-7)	
LD50 oral	175 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.075 mg/l/4h

Skin corrosion/irritation	Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.	
Germ cell mutagenicity	:	Not classified	
Carcinogenicity - Description	:	Not classified	

Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

12.1. Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects on the environment.

Stannane, dibutylbis[(1-oxododecyl)oxy]- (77-58-7)

EC50 Daphnia 1	0.66 mg/l
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12.. Persistence and degradability

1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]- (1760-24-3)

Biodegradation	38 % 28 d
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12.. Bioaccumulative potential

No additional information is available

12.4 Mobility in soil

No additional information is available

12.5. Results of PBT and vPvB assessment

No additional information is available

12.6. Other adverse effects

No additional information is available



13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable

In accordance with ADR / RID / IMDG / IATA / ADN

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)**ADR**

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.3. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable



14.5 Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information is available

14.6 Special precautions for user

Overland transport

Not applicable

Transport by the sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

15.1. Safety, health, and environmental regulations/legislation specific to the substance or mixture

15.1.1. EU-Regulations

Contains no REACH
substances with Annex XVII
restrictions Contains no
substance on the REACH
candidate list Contains no
REACH Annex XIV
substance

15.1.2. National regulation:

Germany

VwVwS Annex reference

12th Ordinance Implementing the Federal Emission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

Denmark

Recommendations Danish Regulation



15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.

Full text of H- and EUH-statements:





Get in touch.



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