



# 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

<b>2.3. Other Hazards</b>		
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<b>2.3. Other hazards</b>		
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No additional information is available

<b>3.1. Substances</b>		
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Not applicable

<b>3.2. Mixture</b>		
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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 : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:  
Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to  
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.

### 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 spill 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/m<sup>3</sup>, STEL 0.2 mg/m<sup>3</sup> (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
<b>Stannane, dibutylbis[(1-oxododecyl)oxy]- (77-58-7)</b>	
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
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STOT-single exposure	: Not classified
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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

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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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