



# TriRoof Hybrid Polymer Roofing System

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Revision date: 19.01.2023 Revision number: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : TriRoof Hybrid Polymer Roofing System  
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 general public

##### 1.2.2. Uses advised against

No additional information available

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

##### Tricel Composites (GB) Limited

Unit A, Fox Way, Off Atkinson Street, Leeds, LS10 1PS,  
United Kingdom. Tel : +44 (0) 113 270 3133  
sales@tricelcomposites.co.uk

##### Tricel Composites (NI) Limited

Unit 4, Milltown Industrial Estate, Greenan Road, Warrenpoint,  
Co.Down, BT34 3FN, United Kingdom. Tel: +44 (0) 28 4175 3738  
sales@tricelcomposites.co.uk

#### 1.4. Emergency telephone number

| Country        | Organisation/Company  | Address   | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    |         |

### SECTION 2: Hazards identification

#### 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  
Skin sensitisation, Category 1 H317  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

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

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning  
Hazardous ingredients : N-(3-(trimethoxysilyl) propyl)ethylenediamine, trimethoxyvinylsilane  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.

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|                                |  |
|--------------------------------|--|
| Precautionary statements (CLP) | : P102 - Keep out of reach of children.<br>P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.<br>P280 - Wear eye protection, face protection, protective gloves, protective clothing.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements                 | : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  |
| Child-resistant fastening      | : Not applicable   |
| Tactile warning                | : Not applicable   |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier  | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP]                               |
|---|---|--------|---|
| Titanium Dioxide  | (CAS-No.) 13463-67-7<br>(EC-No.) 236-675-5<br>(REACH-no) 01-2119489379-17-00                          | 1 – 5  | Not classified  |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine              | (CAS-No.) 1760-24-3<br>(EC-No.) 217-164-6<br>(REACH-no) 01-2119970215-39                              | < 2    | Acute Tox. 4 (Inhalation), H332<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>STOT RE 2, H373 |
| trimethoxyvinylsilane                                     | (CAS-No.) 2768-02-7<br>(EC-No.) 220-449-8<br>(REACH-no) 01-2119513215-52                              | 1–1.5  | Skin Sens. 1B, H317   |
| dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane | (CAS-No.) 77-58-7<br>(EC-No.) 201-039-8<br>(EC Index-No.) 050-030-00-3<br>(REACH-no) 01-2119496068-27 | < 0.05 | Muta. 2, H341<br>Repr. 1B, H360FD<br>STOT RE 1, H372  |

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 center 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.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 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 material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into 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.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. 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.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)

##### Austria - Occupational Exposure Limits

|                      |                                |
|----------------------|--------------------------------|
| Local name           | Dibutylzinndilaurat            |
| Remark (AT)          | Fortpflanzungsgefährdend: F, D |
| Regulatory reference | BGBl. II Nr. 238/2018          |

##### Titanium Dioxide (13463-67-7)

##### Austria - Occupational Exposure Limits

|                |                             |
|----------------|-----------------------------|
| Local name     | Titandioxid (Alveolarstaub) |
| MAK (OEL TWA)  | 5 mg/m <sup>3</sup>         |
| MAK (OEL STEL) | 10 mg/m <sup>3</sup>        |

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### Titanium Dioxide (13463-67-7)

|  |  |
|--|--|
| Regulatory reference                           | BGBl. II Nr. 186/2015  |
| <b>Belgium - Occupational Exposure Limits</b>  |  |
| Local name                                     | Titane (dioxyde de) # Titaandioxide  |
| OEL TWA  | 10 mg/m <sup>3</sup>   |
| Regulatory reference                           | Koninklijk besluit/Arrêté royal 02/09/2018   |
| <b>Bulgaria - Occupational Exposure Limits</b> |  |
| Local name                                     | Титанов диоксид  |
| OEL TWA  | 10 mg/m <sup>3</sup> (респирабилен прах)   |
| <b>Croatia - Occupational Exposure Limits</b>  |  |
| Local name                                     | Titanov dioksid  |
| GVI (OEL TWA) [1]                              | 10 mg/m <sup>3</sup> U (ukupna prašina)<br>4 mg/m <sup>3</sup> R (respirabilna prašina)                                      |
| <b>Denmark - Occupational Exposure Limits</b>  |  |
| Local name                                     | Titandioxid  |
| OEL TWA [1]                                    | 6 mg/m <sup>3</sup> beregnet som Ti  |
| Regulatory reference                           | BEK nr 655 af 31/05/2018   |
| <b>Estonia - Occupational Exposure Limits</b>  |  |
| Local name                                     | Titaanoksiid   |
| OEL TWA  | 5 mg/m <sup>3</sup>  |
| Regulatory reference                           | Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)   |
| <b>France - Occupational Exposure Limits</b>   |  |
| Local name                                     | Titane (dioxyde de), en Ti   |
| VME (OEL TWA)                                  | 10 mg/m <sup>3</sup>   |
| Note (FR)                                      | Valeurs recommandées/admises   |
| Regulatory reference                           | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)   |
| <b>Greece - Occupational Exposure Limits</b>   |  |
| Local name                                     | Τιτανίου διοξειδίο   |
| OEL TWA  | 10 mg/m <sup>3</sup> εισπν.<br>5 mg/m <sup>3</sup> αναπν.  |
| Regulatory reference                           | Π.Δ. 90/1999   |
| <b>Ireland - Occupational Exposure Limits</b>  |  |
| Local name                                     | Titanium dioxide   |
| OEL TWA [1]                                    | 10 mg/m <sup>3</sup> total inhalable dust<br>4 mg/m <sup>3</sup> respirable dust   |
| Regulatory reference                           | Code of Practice for the Chemical Agents Regulations 2018  |
| <b>Latvia - Occupational Exposure Limits</b>   |  |
| Local name                                     | Titāna dioksīds  |
| OEL TWA  | 10 mg/m <sup>3</sup>   |
| Regulatory reference                           | Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92) |

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### Titanium Dioxide (13463-67-7)

#### Lithuania - Occupational Exposure Limits

|                      |   |
|----------------------|---|
| Local name           | Titano dioksidas  |
| IPRV (OEL TWA)       | 5 mg/m <sup>3</sup>   |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |

#### Poland - Occupational Exposure Limits

|                      |  |
|----------------------|--|
| Local name           | Ditlenek tytanu                        |
| NDS (OEL TWA)        | 10 mg/m <sup>3</sup> frakcja wdychalna |
| Regulatory reference | Dz. U. 2018 poz. 1286                  |

#### Portugal - Occupational Exposure Limits

|                      |                               |
|----------------------|-------------------------------|
| Local name           | Dióxido de titânio            |
| OEL TWA              | 10 mg/m <sup>3</sup>          |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |

#### Romania - Occupational Exposure Limits

|                      |                        |
|----------------------|------------------------|
| Local name           | Dioxid de titan        |
| OEL TWA              | 10 mg/m <sup>3</sup>   |
| OEL STEL             | 15 mg/m <sup>3</sup>   |
| Regulatory reference | Hotărârea nr. 584/2018 |

#### Slovakia - Occupational Exposure Limits

|                      |                                  |
|----------------------|----------------------------------|
| Local name           | Oxid titaničitý                  |
| NPHV (OEL TWA) [1]   | 5 mg/m <sup>3</sup>              |
| Regulatory reference | Nariadenie vlády č. 33/2018 Z.z. |

#### Spain - Occupational Exposure Limits

|                      |   |
|----------------------|---|
| Local name           | Dióxido de titanio  |
| VLA-ED (OEL TWA) [1] | 10 mg/m <sup>3</sup>  |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT |

#### Sweden - Occupational Exposure Limits

|                      |                                     |
|----------------------|-------------------------------------|
| Local name           | Titandioxid                         |
| NGV (OEL TWA)        | 5 mg/m <sup>3</sup> totaldamm       |
| Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |

#### United Kingdom - Occupational Exposure Limits

|                      |  |
|----------------------|--|
| Local name           | Titanium dioxide   |
| WEL TWA [1]          | 4 mg/m <sup>3</sup> respirable<br>10 mg/m <sup>3</sup> total inhalable |
| Regulatory reference | EH40/2005 (Third edition, 2018). HSE                                   |

#### Iceland - Occupational Exposure Limits

|                      |   |
|----------------------|---|
| Local name           | Títandíoxíð, sem Ti   |
| OEL TWA              | 6 mg/m <sup>3</sup>   |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |

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### Titanium Dioxide (13463-67-7)

#### Norway - Occupational Exposure Limits

|                           |                     |
|---------------------------|---------------------|
| Local name                | Titandioksid        |
| Grenseverdi (OEL TWA) [1] | 5 mg/m <sup>3</sup> |
| Regulatory reference      | FOR-2018-08-21-1255 |

#### Switzerland - Occupational Exposure Limits

|                      |                                 |
|----------------------|---------------------------------|
| Local name           | Dioxyde de titane / Titandioxid |
| MAK (OEL TWA) [1]    | 3 mg/m <sup>3</sup> (a) / (a)   |
| Critical toxicity    | VRI / UAW                       |
| Notation             | SSc / SSc                       |
| Remark               | NIOSH                           |
| Regulatory reference | www.suva.ch, 01.07.2019         |

#### USA - ACGIH - Occupational Exposure Limits

|                      |   |
|----------------------|---|
| Local name           | Titanium dioxide  |
| ACGIH OEL TWA        | 10 mg/m <sup>3</sup>  |
| Remark (ACGIH)       | TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2019  |

## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Hand protection:

EN 374. Protective gloves

### Skin and body protection:

Wear protective clothing

### Eye protection:

EN 166. Safety glasses

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):

### 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     | : Flowable liquid. |
| Colour         | : White. Grey.     |

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|   |                     |
|---|---------------------|
| 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                                     | :>60°C              |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : Not applicable    |
| Vapour pressure                                 | : 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 |
| Partition coefficient n-octanol/water (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 available

## SECTION 10: Stability and reactivity

### 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 known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information 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 (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

### N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

|                            |  |
|----------------------------|--|
| LD50 dermal rabbit         | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)  |
| LC50 inhalation rat (mg/l) | 1.49 – 2.44 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

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### dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)

LD50 oral rat 2071 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1207 - 5106

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

### Titanium Dioxide (13463-67-7)

LD50 oral rat > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

### trimethoxyvinylsilane (2768-02-7)

|                             |  |
|-----------------------------|--|
| NOAEL (animal/male, F0/P)   | 1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)  |
| NOAEL (animal/female, F0/P) | 250 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |

### dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)

|                             |  |
|-----------------------------|--|
| NOAEL (animal/male, F0/P)   | 1.9 – 2.3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)   |
| NOAEL (animal/female, F0/P) | 1.7 – 2.4 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

### trimethoxyvinylsilane (2768-02-7)

|                            |  |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |
| NOAEL (oral, rat, 90 days) | < 62.5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

### N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

|                                     |   |
|-------------------------------------|---|
| NOAEL (oral, rat, 90 days)          | ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (dermal, rat/rabbit, 90 days) | ≥ 1545 mg/kg bodyweight Animal: rat   |

Aspiration hazard : Not classified



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### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified  |

#### trimethoxyvinylsilane (2768-02-7)

|                      |   |
|----------------------|---|
| LC50 - Fish [1]      | > 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                   |
| EC50 - Daphnia [1]   | 168.7 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1] | > 957 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

#### N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

|                      |   |
|----------------------|---|
| LC50 - Fish [1]      | 597 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                   |
| EC50 - Daphnia [1]   | 81 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1] | 126 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 352 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

#### dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)

|                      |   |
|----------------------|---|
| EC50 - Daphnia [1]   | 1.7 – 3.4 mg/l Test organisms (species): Daphnia magna  |
| EC50 - Daphnia [2]   | < 463 µg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1] | > 1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

#### Titanium Dioxide (13463-67-7)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 155 mg/l Test organisms (species): other:Japanese Medaka   |
| EC50 - Daphnia [1]   | 19.3 mg/l Test organisms (species): Daphnia magna  |
| EC50 - Daphnia [2]   | 27.8 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)       | ≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

### SECTION 14: Transport information

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

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |

No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Not regulated

##### Transport by sea

Not regulated

##### Air transport

Not regulated

##### Inland waterway transport

Not regulated

##### Rail transport

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| Reference code | Applicable on  | Entry title or description   |
|----------------|--|--|
| 30.            | dibutyltin dilaurate;<br>dibutyl[[bis(dodecanoyloxy)] stannane | Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively. |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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### 15.1.2. National regulations

#### Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)  
Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### BlmSchV) Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane is listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane is listed

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

#### Switzerland

Storage class (LK) : LK 10/12 - Liquids

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### Abbreviations and acronyms:

|        |   |
|--------|---|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Median lethal concentration   |
| LD50   | Median lethal dose  |
| LOAEL  | Lowest Observed Adverse Effect Level  |
| NOAEC  | No-Observed Adverse Effect Concentration  |

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|         |  |
|---------|--|
| NOAEL   | No-Observed Adverse Effect Level   |
| NOEC    | No-Observed Effect Concentration   |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit  |
| PBT     | Persistent Bioaccumulative Toxic   |
| PNEC    | Predicted No-Effect Concentration  |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet  |
| STP     | Sewage treatment plant   |
| ThOD    | Theoretical oxygen demand (ThOD)   |
| TLM     | Median Tolerance Limit   |
| VOC     | Volatile Organic Compounds   |
| CAS-No. | Chemical Abstract Service number   |
| N.O.S.  | Not Otherwise Specified  |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4  |
| 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 Sens. 1                        | Skin sensitisation, Category 1   |
| Skin Sens. 1B                       | Skin sensitisation, category 1B  |
| STOT RE 1                           | Specific target organ toxicity — Repeated exposure, Category 1                                   |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2                                   |
| H226                                | Flammable liquid and vapour.   |
| 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.  |
| H360FD                              | May damage fertility. May damage the unborn child.   |
| H372                                | Causes damage to organs through prolonged or repeated exposure.                                  |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                               |
| EUH211                              | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |

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Tricel Composites (GB) Limited SDS EU

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