

TEGRA POINT PU 301  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name POINT PU 301

Pure substance/mixture Mixture

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

Recommended use Sealant

Uses advised against None known

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

#### Company Name

#### UAB TEGRA STATE

Savanoriu ave 178A, LT-03154 Vilnius, LITHUANIA

Tel.: +37052661167

www.tegrastate.eu

E-mail: info@tegragroup.eu

### 1.4. Emergency telephone number

United Kingdom NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### Signal word

None

#### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### EU Specific Hazard Statements

EUH208 - Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction

EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust

EUH204 - Contains isocyanates. May produce an allergic reaction

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EUH210 - Safety data sheet available on request

## Special provisions concerning the labelling of certain mixtures

Reserved for industrial and professional use. As from 24 August 2023 adequate training is required before industrial or professional use.

### 2.3. Other hazards

Causes mild skin irritation.

### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name                                     | EC No (EU Index No)         | CAS No     | Weight-%    | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | Specific concentration limit (SCL)           | REACH registration number |
|---|-----------------------------|------------|-------------|---|--|---------------------------|
| Xylene (reaction mass of ethylbenzene and xylene) | 905-588-0                   | RR-45541-4 | 5 - <10     | STOT SE 3 (H335)<br>STOT RE 2 (H373)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332)<br>Flam Liq. 3 (H226) | STOT RE 2 :: C>=10%                          | 01-2119488216-32-xxxx     |
| Titanium dioxide                                  | (022-006-00-2)<br>236-675-5 | 13463-67-7 | 1 - <5      | [C]   | -  | 01-2119489379-17-XXXX     |
| Aromatic Polyisocyanate                           | -                           | 53317-61-6 | 0.1 - <1    | Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)  | -  | [7]                       |
| C.I. Pigment Black 26                             | 269-056-3                   | 68186-94-7 | 0.1 - <0.5  | [B]   | -  | 01-2119457599-19-XXXX     |
| Ethyl acetate                                     | (607-022-00-5)<br>205-500-4 | 141-78-6   | 0.1 - <0.3  | Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)<br>(EUH066)  | -  | 01-2119475103-46-XXXX     |
| 4,4'-Methylenediphenyl diisocyanate               | (615-005-00-9)              | 101-68-8   | 0.01 - <0.1 | Acute Tox. 4 (H332)   | STOT SE 3 :: C>=5%<br>Skin Irrit. 2 :: C>=5% | 01-2119457014-47-XXXX     |

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|--|-----------------------------|--------------|----------------|---|---|-----------------------|
|  | (615-035-00-2)<br>202-966-0 |              |                | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Resp. Sens. 1 (H334)<br>Skin Sens. 1 (H317)<br>Carc. 2 (H351)<br>STOT SE 3 (H335)<br>STOT RE 2 (H373)                                | Eye Irrit. 2 :: C>=5%<br>Resp. Sens. 1 :: C>=0.1% |                       |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0                   | 1065336-91-5 | 0.01 - <0.1    | Skin Sens. 1A (H317)<br>Repr. 2 (H361f)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)   | -   | 01-2119491304-40-XXXX |
| m-tolyldiene diisocyanate  | (615-006-00-4)<br>247-722-4 | 26471-62-5   | 0.01 - <0.1    | Acute Tox. 1 (H330)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Resp. Sens. 1 (H334)<br>Skin Sens. 1 (H317)<br>Carc. 2 (H351)<br>STOT SE 3 (H335)<br>Aquatic Chronic 3 (H412) | Resp. Sens. 1 :: C>=0.1%                          | 01-2119454791-34-XXXX |
| m-tolyldiene diisocyanate  | (615-006-00-4)<br>247-722-4 | 26471-62-5   | 0.0025 - <0.01 | Acute Tox. 1 (H330)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Resp. Sens. 1 (H334)<br>Skin Sens. 1 (H317)<br>Carc. 2 (H351)<br>STOT SE 3 (H335)<br>Aquatic Chronic 3 (H412) | Resp. Sens. 1 :: C>=0.1%                          | 01-2119454791-34-XXXX |

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

**Full text of H- and EUH-phrases: see section 16**

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

Substances identified by a number starting "RR-" in the CAS-field are substances for which there is no CAS# used in EU and we use an internal numbering system to track within our SDS software

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures**

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## 4.1. Description of first aid measures

|                       |   |
|-----------------------|---|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.        |
| <b>Inhalation</b>     | IF exposed or concerned: Get medical advice/attention. Remove to fresh air.   |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.                     |
| <b>Skin contact</b>   | In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.                                     |
| <b>Ingestion</b>      | Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. |

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

**Symptoms** Prolonged contact may cause redness and irritation.

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

**Note to doctors** No information available.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

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

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Nitrogen oxides (NO<sub>x</sub>). Aldehydes. Hydrogen cyanide. Isocyanates. Hydrochloric Acid. Sulphur oxides.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

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**Methods for containment** Do not scatter spilled material with high pressure water streams.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Protect from moisture.

**Recommended storage temperature** Keep at temperatures between 10 and 35 °C.

### 7.3. Specific end use(s)

**Specific use(s)**  
Sealant.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

**Exposure Limits** This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

| Chemical name   | European Union  | United Kingdom   |
|---|---|--|
| Polyvinyl chloride<br>9002-86-2                                 | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup>        |
| Limestone<br>1317-65-3  | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup>        |
| Xylene (reaction mass of ethylbenzene and xylene)<br>RR-45541-4 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>S* | STEL: 100 ppm<br>STEL: 441 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>Skin                        |
| Titanium dioxide<br>13463-67-7                                  | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup>        |
| C.I. Pigment Black 26<br>68186-94-7                             | TWA: 0.05 mg/m <sup>3</sup> Manganese respirable fraction                                       | TWA: 0.2 mg/m <sup>3</sup><br>TWA: 0.05 mg/m <sup>3</sup><br>STEL: 0.6 mg/m <sup>3</sup><br>STEL: 0.15 mg/m <sup>3</sup> |
| Ethyl acetate   | TWA: 734 mg/m <sup>3</sup>  | TWA: 734 mg/m <sup>3</sup>   |

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|---|---|---|
| 141-78-6  | TWA: 200 ppm<br>STEL: 1468 mg/m <sup>3</sup><br>STEL: 400 ppm | TWA: 200 ppm<br>STEL: 1468 mg/m <sup>3</sup><br>STEL: 400 ppm       |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | -   | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sen+ |
| m-tolylidene diisocyanate<br>26471-62-5         | -   | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sen+ |
| m-tolylidene diisocyanate<br>26471-62-5         | -   | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sen+ |

| Chemical name                                   | European Union | Ireland   | United Kingdom   |
|---|----------------|---|--|
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | -              | 1 µmol/mol Creatinine (urine - urinary Diamine post task) | 1 mmol isocyanate-derived diamine/mol creatinine urine |
| m-tolylidene diisocyanate<br>26471-62-5         | -              | 1 µmol/mol Creatinine (urine - urinary Diamine post task) | -  |
| m-tolylidene diisocyanate<br>26471-62-5         | -              | 1 µmol/mol Creatinine (urine - urinary Diamine post task) | -  |

**Derived No Effect Level (DNEL)**      No information available

| <b>Derived No Effect Level (DNEL)</b>                                 |                |                                |               |
|---|----------------|--------------------------------|---------------|
| <b>Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)</b> |                |                                |               |
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects                        | Inhalation     | 221 mg/m <sup>3</sup>          |               |
| worker<br>Long term<br>Local health effects                           | Inhalation     | 221 mg/m <sup>3</sup>          |               |
| worker<br>Short term<br>Local health effects                          | Inhalation     | 442 mg/m <sup>3</sup>          |               |
| worker<br>Long term<br>Systemic health effects                        | Dermal         | 212 mg/kg bw/d                 |               |

| <b>Titanium dioxide (13463-67-7)</b>        |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Local health effects | Inhalation     | 10 mg/m <sup>3</sup>           |               |

| <b>Ethyl acetate (141-78-6)</b>                 |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects  | Dermal         | 63 mg/kg bw/d                  |               |
| worker<br>Short term<br>Systemic health effects | Inhalation     | 1468 mg/m <sup>3</sup>         |               |
| worker<br>Long term<br>Local health effects     | Inhalation     | 734 mg/m <sup>3</sup>          |               |
| worker<br>Short term                            | Inhalation     | 1468 mg/m <sup>3</sup>         |               |

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| Local health effects                           |            |                       |  |
| worker<br>Long term<br>Systemic health effects | Inhalation | 734 mg/m <sup>3</sup> |  |

## 4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| worker<br>Short term<br>Systemic health effects | Dermal         | 50 mg/kg bw/d                  |               |
| worker<br>Short term<br>Systemic health effects | Inhalation     | 0.1 mg/m <sup>3</sup>          |               |
| worker<br>Short term<br>Local health effects    | Dermal         | 28700 µg/cm <sup>2</sup>       |               |
| worker<br>Short term<br>Local health effects    | Inhalation     | 0.1 mg/m <sup>3</sup>          |               |
| worker<br>Long term<br>Systemic health effects  | Inhalation     | 0.05 mg/m <sup>3</sup>         |               |
| worker<br>Long term<br>Local health effects     | Inhalation     | 0.05 mg/m <sup>3</sup>         |               |

## m-tolylidene diisocyanate (26471-62-5)

| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| worker<br>Long term<br>Systemic health effects  | Inhalation     | 0.035 mg/m <sup>3</sup>        |               |
| worker<br>Short term<br>Systemic health effects | Inhalation     | 0.14 mg/m <sup>3</sup>         |               |
| worker<br>Long term<br>Local health effects     | Inhalation     | 0.035 mg/m <sup>3</sup>        |               |
| worker<br>Short term<br>Local health effects    | Inhalation     | 0.14 mg/m <sup>3</sup>         |               |

## m-tolylidene diisocyanate (26471-62-5)

| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| worker<br>Long term<br>Systemic health effects  | Inhalation     | 0.035 mg/m <sup>3</sup>        |               |
| worker<br>Short term<br>Systemic health effects | Inhalation     | 0.14 mg/m <sup>3</sup>         |               |
| worker<br>Long term<br>Local health effects     | Inhalation     | 0.035 mg/m <sup>3</sup>        |               |
| worker<br>Short term<br>Local health effects    | Inhalation     | 0.14 mg/m <sup>3</sup>         |               |

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| <b>Derived No Effect Level (DNEL)</b>                                 |                |                                |               |
|---|----------------|--------------------------------|---------------|
| <b>Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)</b> |                |                                |               |
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects                      | Inhalation     | 65.3 mg/m <sup>3</sup>         |               |
| Consumer<br>Short term<br>Systemic health effects                     | Inhalation     | 260 mg/m <sup>3</sup>          |               |
| Consumer<br>Long term<br>Local health effects                         | Inhalation     | 65.3 mg/m <sup>3</sup>         |               |
| Consumer<br>Short term<br>Local health effects                        | Inhalation     | 260 mg/m <sup>3</sup>          |               |
| Consumer<br>Long term<br>Systemic health effects                      | Dermal         | 125 mg/kg bw/d                 |               |
| Consumer<br>Long term<br>Systemic health effects                      | Oral           | 12.5 mg/kg bw/d                |               |

| <b>Titanium dioxide (13463-67-7)</b>             |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Oral           | 700 mg/kg bw/d                 |               |

| <b>Ethyl acetate (141-78-6)</b>                   |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects  | Oral           | 4.5 mg/kg bw/d                 |               |
| Consumer<br>Long term<br>Systemic health effects  | Dermal         | 37 mg/kg bw/d                  |               |
| Consumer<br>Short term<br>Systemic health effects | Inhalation     | 734 mg/m <sup>3</sup>          |               |
| Consumer<br>Long term<br>Local health effects     | Inhalation     | 367 mg/m <sup>3</sup>          |               |
| Consumer<br>Short term<br>Local health effects    | Inhalation     | 734 mg/m <sup>3</sup>          |               |
| Consumer<br>Long term<br>Systemic health effects  | Inhalation     | 367 mg/m <sup>3</sup>          |               |

| <b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b> |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Short term<br>Systemic health effects     | Dermal         | 25 mg/kg bw/d                  |               |
| Consumer<br>Short term                                | Inhalation     | 0.05 mg/m <sup>3</sup>         |               |



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| Systemic health effects                           |            |                          |  |
| Consumer<br>Short term<br>Systemic health effects | Oral       | 20 mg/kg bw/d            |  |
| Consumer<br>Short term<br>Local health effects    | Dermal     | 17200 µg/cm <sup>2</sup> |  |
| Consumer<br>Short term<br>Local health effects    | Inhalation | 0.05 mg/m <sup>3</sup>   |  |
| Consumer<br>Long term<br>Systemic health effects  | Inhalation | 0.025 mg/m <sup>3</sup>  |  |
| Consumer<br>Long term<br>Local health effects     | Inhalation | 0.025 mg/m <sup>3</sup>  |  |

## Predicted No Effect Concentration (PNEC)

| Predicted No Effect Concentration (PNEC)                       |  |
|--|--|
| Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4) |  |
| Environmental compartment                                      | Predicted No Effect Concentration (PNEC) |
| Freshwater   | 0.327 mg/l                               |
| Marine water   | 0.327 mg/l                               |
| Microorganisms in sewage treatment                             | 6.58 mg/l                                |
| Freshwater sediment  | 12.46 mg/kg dry weight                   |
| Soil   | 2.31 mg/kg dry weight                    |

| Titanium dioxide (13463-67-7)      |  |
|------------------------------------|--|
| Environmental compartment          | Predicted No Effect Concentration (PNEC) |
| Marine water                       | 0.0184 mg/l                              |
| Freshwater sediment                | 1000 mg/kg                               |
| Freshwater                         | 0.184 mg/l                               |
| Marine sediment                    | 100 mg/kg                                |
| Soil                               | 100 mg/kg                                |
| Microorganisms in sewage treatment | 100 mg/l                                 |
| Freshwater - intermittent          | 0.193 mg/l                               |

| Ethyl acetate (141-78-6)           |  |
|------------------------------------|--|
| Environmental compartment          | Predicted No Effect Concentration (PNEC) |
| Freshwater                         | 0.26 mg/l                                |
| Marine water                       | 0.026 mg/l                               |
| Freshwater sediment                | 1.25 mg/kg                               |
| Marine sediment                    | 0.125 mg/kg                              |
| Soil                               | 0.24 mg/kg                               |
| Microorganisms in sewage treatment | 650 mg/l                                 |

| 4,4'-Methylenediphenyl diisocyanate (101-68-8) |  |
|--|--|
| Environmental compartment                      | Predicted No Effect Concentration (PNEC) |
| Freshwater                                     | 1 mg/l                                   |
| Marine water                                   | 0.1 mg/l                                 |
| Soil   | 1 mg/kg dry weight                       |
| Sewage treatment plant                         | 1 mg/l                                   |
| Freshwater - intermittent                      | 10 mg/l                                  |

| m-tolylidene diisocyanate (26471-62-5) |  |
|--|--|
| Environmental compartment              | Predicted No Effect Concentration (PNEC) |
| Freshwater                             | 0.013 mg/l                               |
| Marine water                           | 0.00125 mg/l                             |
| Microorganisms in sewage treatment     | >1 mg/l                                  |

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| Soil  | >1 mg/kg dry weight                      |
| <b>m-tolylidene diisocyanate (26471-62-5)</b> |  |
| Environmental compartment                     | Predicted No Effect Concentration (PNEC) |
| Freshwater                                    | 0.013 mg/l                               |
| Marine water                                  | 0.00125 mg/l                             |
| Microorganisms in sewage treatment            | >1 mg/l                                  |
| Soil  | >1 mg/kg dry weight                      |

## 8.2. Exposure controls

|                                      |  |
|--------------------------------------|--|
| <b>Engineering controls</b>          | Ensure adequate ventilation, especially in confined areas.   |
| <b>Personal protective equipment</b> |  |
| <b>Eye/face protection</b>           | Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.  |
| <b>Hand protection</b>               | Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374 |
| <b>Skin and body protection</b>      | Suitable protective clothing.  |
| <b>Respiratory protection</b>        | In case of insufficient ventilation, wear suitable respiratory equipment.  |
| <b>Recommended filter type:</b>      | Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.   |

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Solid                    |
| <b>Appearance</b>      | Paste                    |
| <b>Colour</b>          | Grey                     |
| <b>Odour</b>           | Characteristic.          |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>             | <u>Remarks • Method</u> |
|--|---------------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available         | None known              |
| <b>Initial boiling point and boiling range</b> | Not applicable . °C       |                         |
| <b>Flammability</b>                            | No data available         | None known              |
| <b>Flammability Limit in Air</b>               |                           | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available         |                         |
| <b>Lower flammability or explosive limits</b>  | No data available         |                         |
| <b>Flash point</b>                             | > 61 °C                   |                         |
| <b>Autoignition temperature</b>                | No data available         | None known              |
| <b>Decomposition temperature</b>               |                           | None known              |
| <b>pH</b>                                      | No data available         | Not applicable.         |
| <b>pH (as aqueous solution)</b>                | No data available         | None known              |
| <b>Kinematic viscosity</b>                     | 600000 mm <sup>2</sup> /s |                         |
| <b>Dynamic viscosity</b>                       | 600000 mPa s              |                         |
| <b>Water solubility</b>                        | No data available.        | None known              |
| <b>Solubility(ies)</b>                         | No data available         | None known              |
| <b>Partition coefficient</b>                   | No data available         | None known              |
| <b>Vapour pressure</b>                         | No data available         | None known              |
| <b>Relative density</b>                        | No data available         | None known              |
| <b>Bulk Density</b>                            | No data available         |                         |
| <b>Density</b>                                 | 1.23 g/cm <sup>3</sup>    |                         |
| <b>Relative vapour density</b>                 | No data available         | None known              |

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## Particle characteristics

Particle Size No information available  
Particle Size Distribution No information available

## 9.2. Other information

Solid content (%) No information available  
VOC content No data available

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None.  
Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Protect from moisture.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

#### Product Information

Inhalation Based on available data, the classification criteria are not met.  
Eye contact Based on available data, the classification criteria are not met.  
Skin contact Specific test data for the substance or mixture is not available. Causes mild skin irritation.

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**Ingestion** Based on available data, the classification criteria are not met.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Prolonged contact may cause redness and irritation.

## Acute toxicity

## Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 13,970.40 mg/kg  
ATEmix (inhalation-vapour) 337.20 mg/l

## Component Information

| Chemical name  | Oral LD50                                      | Dermal LD50  | Inhalation LC50   |
|--|--|--|---|
| Xylene (reaction mass of ethylbenzene and xylene)  | =3500 mg/kg (Rattus)                           | >10000 mg/kg (Oryctolagus cuniculus)                                     | =>47635 mg/L (Rattus) 4 h = >5000 ppm (Rattus) 4 h                                      |
| Titanium dioxide   | >10000 mg/kg (Rattus)                          | LD50 > 5000 mg/Kg  | = 5.09 mg/L ( Rattus ) 4 h  |
| Aromatic Polyisocyanate  | LD50 >2000 mg/Kg (Rattus)                      | -  | LC50 >3.820 mg/L (Rattus) 4h dust/mist  |
| C.I. Pigment Black 26  | >10000 mg/kg Rat                               | -  | -   |
| Ethyl acetate  | =5620 mg/kg (Rattus)                           | > 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus) | LC0 29.3 mg/l air   |
| 4,4'-Methylenediphenyl diisocyanate  | =31600 mg/kg (Rattus)<br>= 9200 mg/kg (Rattus) | LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402                      | =1.5 mg/L (Rattus) 4 h  |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | LD50 = 3230 mg/Kg (Rattus) (OECD 401)          | LD50 >3170 mg/Kg (Rattus) (OECD 402)                                     | -   |
| m-tolylidene diisocyanate  | =3060 mg/kg (Rattus)                           | = 10000 mg/kg (Oryctolagus cuniculus)                                    | =0.107 mg/L (Rattus) 4 h (Vapour)   |
| m-tolylidene diisocyanate  | =3060 mg/kg (Rattus)                           | = 10000 mg/kg (Oryctolagus cuniculus)                                    | =0.107 mg/L 4h (Vapour)(Rattus) (OECD 403)<br>=0.48 mg/L 1h (Vapour)(Rattus) (OECD 403) |

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.

Titanium dioxide (13463-67-7)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results      |
|--|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit  | Dermal         |                |               | Non-irritant |

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method                          | Species | Exposure route | Effective dose | Exposure time | Results  |
|---------------------------------|---------|----------------|----------------|---------------|----------|
| OECD Test No. 404: Acute Dermal | Rabbit  | Dermal         |                |               | Irritant |

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|----------------------|--|--|--|--|--|
| Irritation/Corrosion |  |  |  |  |  |
|----------------------|--|--|--|--|--|

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

| Method  | Species | Exposure route | Effective dose | Exposure time | Results      |
|---|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | Eye            |                |               | Non-irritant |

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method  | Species | Exposure route | Effective dose | Exposure time | Results             |
|---|---------|----------------|----------------|---------------|---------------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | Eye            | 0.1 mL         | 24 hours      | Mild eye irritation |

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

| Method  | Species    | Exposure route | Results               |
|---|------------|----------------|-----------------------|
| OECD Test No. 406: Skin Sensitisation                         | Guinea pig | Dermal         | Not a skin sensitiser |
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse      | Dermal         | Not a skin sensitiser |

Ethyl acetate (141-78-6)

| Method                                | Species    | Exposure route | Results                                  |
|---------------------------------------|------------|----------------|--|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal         | No sensitisation responses were observed |

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method                                | Species    | Exposure route | Results     |
|---------------------------------------|------------|----------------|-------------|
| OECD GD 39                            | Rat        | Inhalation     | Sensitizing |
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal         | Sensitizing |

m-tolylidene diisocyanate (26471-62-5)

| Method  | Species | Exposure route | Results     |
|---|---------|----------------|-------------|
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse   | Dermal         | sensitising |

m-tolylidene diisocyanate (26471-62-5)

| Method  | Species | Exposure route | Results     |
|---|---------|----------------|-------------|
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse   | Dermal         | sensitising |

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Component Information

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method   | Species      | Results       |
|--|--------------|---------------|
| Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)   | in vitro     | Not mutagenic |
| OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test | Rat, in vivo | Not mutagenic |

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**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method   | Species | Results                                   |
|--|---------|---|
| OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies | Rat     | Limited evidence of a carcinogenic effect |

| Chemical name                       | European Union |
|-------------------------------------|----------------|
| 4,4'-Methylenediphenyl diisocyanate | Carc. 2        |
| m-tolyldiene diisocyanate           | Carc. 2        |
| m-tolyldiene diisocyanate           | Carc. 2        |

**Reproductive toxicity** Based on available data, the classification criteria are not met.

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method  | Species | Results                   |
|---|---------|---------------------------|
| OECD Test No. 414: Pre-natal Development Toxicity Study | Rat     | LOAEL 9 mg/m <sup>3</sup> |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method | Species     | Exposure route           | Effective dose                   | Exposure time | Results    |
|--------|-------------|--------------------------|----------------------------------|---------------|------------|
|        | Rat, female | Inhalation,<br>Dust/Mist | 0,0.2,0.7, 2.1 mg/m <sup>3</sup> | 2 Years       | Category 2 |

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

| Chemical name          | Algae/aquatic plants | Fish          | Toxicity to microorganisms | Crustacea   | M-Factor | M-Factor (long-term) |
|------------------------|----------------------|---------------|----------------------------|-------------|----------|----------------------|
| Xylene (reaction mass) | EC50 (72hr) 2.2      | LC50(96h) 2.6 | EC50 = 0.0084              | LC50(24h) 1 |          |                      |

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|--|---|---|--|---|---|---|
| of ethylbenzene and xylene)<br>RR-45541-4  | mg/l<br>(Senastrum capricornutum)                                       | mg/l<br>(Oncorhynchus mykiss-OECD 203)  | mg/L 24 h  | mg/l (Daphnia magna-OECD 202)             |   |   |
| Titanium dioxide<br>13463-67-7   | LC50 (96h)<br>>10000 mg/l<br>(Cyprinodon variegatus)<br>OECD 203        | -   | -  | -   |   |   |
| C.I. Pigment Black 26<br>68186-94-7  | -   | 96H >100000 mg/l  | -  | -   |   |   |
| Ethyl acetate<br>141-78-6  | EC50:<br>=3300mg/L (48h, Desmodosmus subspicatus)                       | LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: 220 - 250mg/L (96h, Pimephales promelas) | EC50 = 1180 mg/L 5 min<br>EC50 = 1500 mg/L 15 min<br>EC50 = 5870 mg/L 15 min<br>EC50 = 7400 mg/L 2 h | EC50: =560mg/L (48h, Daphnia magna)       |   |   |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8  | ErC50 (72h)<br>>1640 mg/L<br>Algae (scenedesmus subspicatus) (OECD 201) | >1000 mg/l (Danio rerio)  | -  | EC50 (24H)<br>>1000 mg/L<br>Daphnia magna |   |   |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate<br>1065336-91-5 | -   | LC50 (96h) =0.9 mg/L  | -  | -   | 1 | 1 |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Aromatic Polyisocyanate (53317-61-6)

| Method  | Exposure time | Value          | Results                        |
|---|---------------|----------------|--------------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) |               | biodegradation | 34 % Not readily biodegradable |

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method   | Exposure time | Value             | Results                   |
|--|---------------|-------------------|---------------------------|
| OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II) | 28 days       | 0% biodegradation | Not readily biodegradable |

## 12.3. Bioaccumulative potential

**Bioaccumulation**

### Component Information

| Chemical name                                     | Partition coefficient |
|---|-----------------------|
| Xylene (reaction mass of ethylbenzene and xylene) | 3.15                  |
| Ethyl acetate                                     | 0.73                  |

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|  |      |
|--|------|
| 4,4'-Methylenediphenyl diisocyanate  | 4.51 |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 2.77 |
| m-tolylidene diisocyanate  | 3.43 |
| m-tolylidene diisocyanate  | 3.43 |

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

| Chemical name  | PBT and vPvB assessment                                       |
|--|---|
| Xylene (reaction mass of ethylbenzene and xylene)  | The substance is not PBT / vPvB                               |
| Titanium dioxide   | The substance is not PBT / vPvB PBT assessment does not apply |
| C.I. Pigment Black 26  | The substance is not PBT / vPvB PBT assessment does not apply |
| Ethyl acetate  | The substance is not PBT / vPvB PBT assessment does not apply |
| 4,4'-Methylenediphenyl diisocyanate  | The substance is not PBT / vPvB                               |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | The substance is not PBT / vPvB                               |
| m-tolylidene diisocyanate  | The substance is not PBT / vPvB                               |
| m-tolylidene diisocyanate  | The substance is not PBT / vPvB                               |

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |
| <b>European Waste Catalogue</b>            | 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09                                    |
| <b>Other information</b>                   | Waste codes should be assigned by the user based on the application for which the product was used.             |

## SECTION 14: Transport information

### Land transport (ADR/RID)

|  |               |
|--|---------------|
| <b>14.1 UN number or ID number</b>     | Not regulated |
| <b>14.2 Proper Shipping Name</b>       | Not regulated |
| <b>14.3 Transport hazard class(es)</b> | Not regulated |
| <b>14.4 Packing group</b>              | Not regulated |



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14.5 Environmental hazards Not applicable  
14.6 Special Provisions None

## IMDG

14.1 UN number or ID number Not regulated  
14.2 Proper Shipping Name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Marine pollutant NP  
14.6 Special Provisions None  
14.7 Maritime transport in bulk according to IMO instruments Not applicable

## Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number Not regulated  
14.2 Proper Shipping Name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special Provisions None

## Section 15: REGULATORY INFORMATION

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical name | CAS No | Restricted substance per REACH Annex XVII |
|---------------|--------|---|
| Diisocyanates | --     | 74  |

74 If product supplied to the industrial or professional users with total monomeric diisocyanates  $\geq 0.1\%$ , then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use".

#### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

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Not applicable

## Persistent Organic Pollutants

Not applicable

## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking  
H225 - Highly flammable liquid and vapour  
H226 - Flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled  
H332 - Harmful if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer  
H361f - Suspected of damaging fertility  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

#### Legend

|         |   |
|---------|---|
| TWA     | TWA (time-weighted average)   |
| STEL    | STEL (Short Term Exposure Limit)  |
| Ceiling | Ceiling Limit Value   |
| *       | Skin designation  |
| SVHC    | Substance(s) of Very High Concern   |
| PBT     | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals                              |
| vPvB    | Very Persistent and very Bioaccumulative (vPvB) Chemicals                           |
| STOT RE | Specific target organ toxicity - Repeated exposure                                  |
| STOT SE | Specific target organ toxicity - Single exposure                                    |
| EWC     | European Waste Catalogue  |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG    | International Maritime Dangerous Goods (IMDG)                                       |
| IATA    | International Air Transport Association (IATA)                                      |
| RID     | Regulations concerning the International Transport of Dangerous Goods by Rail       |

#### Key literature references and sources for data

No information available

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**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 20-Dec-2022

**Indication of changes**

**Revision note** First time release.

**Training Advice** AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR PROFESSIONAL USE

**Further information** No information available

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

**Disclaimer**

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**End of Safety Data Sheet**