

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Structan Express

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Professional use, Consumer use  
Use of the substance/mixture : Adhesives, binding agents

##### 1.2.2. Uses advised against

No additional information available

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

Rectavit N.V. N.V.  
Ambachtenlaan 4  
9080 Lochristi  
Belgium  
T +32 9 216 85 20 - F +32 9 216 85 30  
[msds@rectavit.be](mailto:msds@rectavit.be) - [www.Rectavit.be](http://www.Rectavit.be)

#### 1.4. Emergency telephone number

| Country | Organisation/Company   | Address                      | Emergency number | Comment  |
|---------|--|------------------------------|------------------|--|
| Belgium | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Militaire Reine Astrid | Rue Bruyn 1<br>1120 Brussels | +32 70 245 245   | Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Respiratory sensitisation, Category 1 H334  
Skin sensitisation, Category 1 H317  
Carcinogenicity, Category 2 H351  
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411  
Full text of H- and EUH-statements: see section 16

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### Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Extra phrases

- : Danger
- : aromatic polyisocyanate prepolymer; o-(p-isocyanatobenzyl)phenyl isocyanate; 4,4'-methylenediphenyl diisocyanate
- : H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H351 - Suspected of causing cancer.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.
- : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
P391 - Collect spillage.
- : Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component   |   |
|---|---|
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name   | Product identifier  | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|-------------|---|
| aromatic polyisocyanate prepolymer   | CAS-No.: 99784-49-3   | ≥ 50 – < 75 | Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1,5 mg/l/4h)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT RE 2, H373 |
| o-(p-isocyanatobenzyl)phenyl isocyanate  | CAS-No.: 5873-54-1<br>EC-No.: 227-534-9<br>EC Index-No.: 615-005-00-9<br>REACH-no: 01-2119480143-45 | ≥ 10 – < 25 | Carc. 2, H351<br>Acute Tox. 4 (Inhalation), H332<br>STOT RE 2, H373<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317            |
| 4,4'-methylenediphenyl diisocyanate substance with national workplace exposure limit(s) (BE) | CAS-No.: 101-68-8<br>EC-No.: 202-966-0<br>EC Index-No.: 615-005-00-9<br>REACH-no: 01-2119457014-47  | ≥ 10 – < 25 | Carc. 2, H351<br>Acute Tox. 4 (Inhalation), H332<br>STOT RE 2, H373<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317            |

#### Specific concentration limits:

| Name                                    | Product identifier  | Specific concentration limits   |
|---|---|---|
| o-(p-isocyanatobenzyl)phenyl isocyanate | CAS-No.: 5873-54-1<br>EC-No.: 227-534-9<br>EC Index-No.: 615-005-00-9<br>REACH-no: 01-2119480143-45 | ( 0,1 ≤ C ≤ 100) Resp. Sens. 1, H334<br>( 5 ≤ C ≤ 100) Eye Irrit. 2, H319<br>( 5 ≤ C ≤ 100) Skin Irrit. 2, H315<br>( 5 ≤ C ≤ 100) STOT SE 3, H335 |
| 4,4'-methylenediphenyl diisocyanate     | CAS-No.: 101-68-8<br>EC-No.: 202-966-0<br>EC Index-No.: 615-005-00-9<br>REACH-no: 01-2119457014-47  | ( 0,1 ≤ C ≤ 100) Resp. Sens. 1, H334<br>( 5 ≤ C ≤ 100) Eye Irrit. 2, H319<br>( 5 ≤ C ≤ 100) Skin Irrit. 2, H315<br>( 5 ≤ C ≤ 100) STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.  |
| 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. |

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First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth with water. Immediately consult a doctor/medical service.

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

Symptoms/effects after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Symptoms/effects after skin contact : Irritation. 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.  
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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

Reactivity in case of fire : Reacts slowly with water, generate gases (CO<sub>2</sub>) and overpressure : rupture containers.  
Hazardous decomposition products in case of fire : On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

### 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

General measures : No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe vapours. Avoid contact with skin and eyes.

#### 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

For containment : Collect spillage.  
Methods for cleaning up : On land, sweep or shovel into suitable containers. Take collected spill to manufacturer/competent authority.  
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.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| 4,4'-methylenediphenyl diisocyanate (101-68-8) |  |
|--|--|
| Belgium - Occupational Exposure Limits         |  |
| Local name                                     | 4,4'-Diisocyanate de diphénylméthane (MDI) # Difenylmethaan-4,4'-di-isocyanaat (MDI) |
| OEL TWA  | 0,052 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                  | 0,005 ppm  |
| Regulatory reference                           | Koninklijk besluit/Arrêté royal 11/05/2021   |

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station. Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment symbol(s):



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### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses (EN 166)

### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves against chemicals (EN 374)

### 8.2.2.3. Respiratory protection

**Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection. filter A2-P2 (EN529)

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**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          |
| Colour  | : Colourless.     |
| Appearance                                      | : Pasty.          |
| Odour   | : characteristic. |
| Odour threshold                                 | : Not available   |
| Melting point                                   | : Not applicable  |
| Freezing point                                  | : Not available   |
| Boiling point                                   | : Not available   |
| Flammability                                    | : Not applicable  |
| Explosive limits                                | : Not available   |
| Lower explosion limit                           | : Not available   |
| Upper explosion limit                           | : Not available   |
| Flash point                                     | : > 165 °C        |
| Auto-ignition temperature                       | : Not available   |
| Decomposition temperature                       | : Not available   |
| pH  | : Not available   |
| Viscosity, kinematic                            | : Not available   |
| Solubility                                      | : Not available   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |
| Density   | : 1,12 g/ml       |
| Relative density                                | : 1,12            |
| Relative vapour density at 20°C                 | : Not available   |
| Particle characteristics                        | : Not applicable  |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : ≤ 1,46 %

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### 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

Amines. alcohols.

#### 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Harmful if inhaled.

| Structan Express                                    |  |
|---|--|
| ATE CLP (dust,mist)                                 | 1,604 mg/l/4h  |
| aromatic polyisocyanate prepolymer (99784-49-3)     |  |
| LD50 oral rat                                       | > 2000 mg/kg   |
| LD50 dermal rabbit                                  | > 9400 mg/kg   |
| LC50 Inhalation - Rat                               | 1,5 mg/l   |
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) |  |
| LD50 oral rat                                       | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:84/449/EEC (Gazette of the European Community, No. L 251, of 19 Sept, 1984, page 96) |
| LD50 dermal rabbit                                  | > 9400 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |
| LC50 Inhalation - Rat                               | 0,42 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value of similar product, Inhalation (aerosol))  |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |  |
| LD50 oral rat                                       | > 2000 mg/kg bodyweight (Rat, Male / female, Read-across, Oral, 14 day(s))   |
| LD50 dermal rabbit                                  | > 9400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s))                   |
| LC50 Inhalation - Rat (Dust/Mist)                   | 0,49 mg/l/4h   |
| Skin corrosion/irritation                           | : Causes skin irritation.  |
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) |  |
| pH  | 7 (Calculated, 7.5E-3 g/l, 25 °C)  |

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| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |   |
|---|---|
| pH  | 7 (6.8E-3 g/l, 25 °C)   |
| Serious eye damage/irritation                       | : Causes serious eye irritation.  |
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) |   |
| pH  | 7 (Calculated, 7.5E-3 g/l, 25 °C)   |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |   |
| pH  | 7 (6.8E-3 g/l, 25 °C)   |
| Respiratory or skin sensitisation                   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Suspected of causing cancer.  |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |   |
| IARC group  | 3 - Not classifiable  |
| Reproductive toxicity                               | : Not classified  |
| STOT-single exposure                                | : May cause respiratory irritation.   |
| aromatic polyisocyanate prepolymer (99784-49-3)     |   |
| STOT-single exposure                                | May cause respiratory irritation.   |
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) |   |
| STOT-single exposure                                | May cause respiratory irritation.   |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |   |
| STOT-single exposure                                | May cause respiratory irritation.   |
| STOT-repeated exposure                              | : May cause damage to organs through prolonged or repeated exposure.  |
| aromatic polyisocyanate prepolymer (99784-49-3)     |   |
| STOT-repeated exposure                              | May cause damage to organs through prolonged or repeated exposure.  |
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) |   |
| STOT-repeated exposure                              | May cause damage to organs through prolonged or repeated exposure.  |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |   |
| STOT-repeated exposure                              | May cause damage to organs through prolonged or repeated exposure.  |
| Aspiration hazard                                   | : Not classified  |
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) |   |
| Viscosity, kinematic                                | No data available in the literature   |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      |   |
| Viscosity, kinematic                                | Not applicable (solid)  |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified

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Hazardous to the aquatic environment, long-term (chronic) : Classification is based on available test data

Not rapidly degradable

| <b>o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)</b> |   |
|--|---|
| LC50 - Fish [1]  | > 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 - Crustacea [1]                                       | > 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect) |
| ErC50 algae  | > 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)             |
| NOEC (chronic)   | ≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |

| <b>4,4'-methylenediphenyl diisocyanate (101-68-8)</b> |  |
|---|--|
| LC50 - Fish [1]                                       | > 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Read-across, Nominal concentration)         |
| EC50 - Crustacea [1]                                  | 129,7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect) |
| ErC50 algae   | > 1640 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)            |

### 12.2. Persistence and degradability

| <b>o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)</b> |                                     |
|--|-------------------------------------|
| Persistence and degradability                              | Not readily biodegradable in water. |

| <b>4,4'-methylenediphenyl diisocyanate (101-68-8)</b> |                                     |
|---|-------------------------------------|
| Persistence and degradability                         | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| <b>o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)</b> |   |
|--|---|
| BCF - Fish [1]   | 92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP) |
| Partition coefficient n-octanol/water (Log Pow)            | 4,51 (Read-across, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)   |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (BCF < 500).  |

| <b>4,4'-methylenediphenyl diisocyanate (101-68-8)</b> |  |
|---|--|
| BCF - Fish [1]  | 92 – 200 (OECD 305: Bioconcentration: Flow-Through Fish Test, 4 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, GLP) |
| Partition coefficient n-octanol/water (Log Pow)       | 4,51 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 22 °C)   |
| Bioaccumulative potential                             | Low potential for bioaccumulation (BCF < 500).   |

### 12.4. Mobility in soil

| <b>o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)</b> |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 4,53 – 5,464 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Adsorbs into the soil.                                      |

| <b>4,4'-methylenediphenyl diisocyanate (101-68-8)</b> |                                     |
|---|-------------------------------------|
| Surface tension                                       | No data available in the literature |

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| 4,4'-methylenediphenyl diisocyanate (101-68-8)             |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 4,53 – 5,455 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Adsorbs into the soil.                                      |

### 12.5. Results of PBT and vPvB assessment

| Component   |   |
|---|---|
| o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 4,4'-methylenediphenyl diisocyanate (101-68-8)      | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                   |  |
|-----------------------------------|--|
| Regional legislation (waste)      | : Collect all waste in suitable and labelled containers and dispose according to local legislation. Disposal must be done according to official regulations.                                 |
| Waste treatment methods           | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| European List of Waste (LoW) code | : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances<br>15 01 10* - packaging containing residues of or contaminated by dangerous substances |

## SECTION 14: Transport information

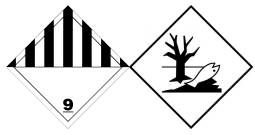
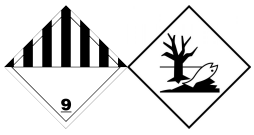
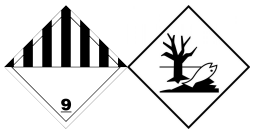
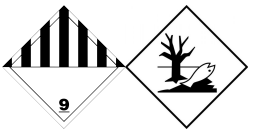
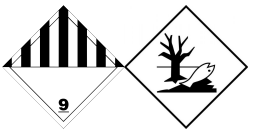
In accordance with ADR / IMDG / IATA / ADN / RID /

| ADR   | IMDG  | IATA   | ADN  | RID  |
|---|---|--|--|--|
| <b>14.1. UN number or ID number</b>   |   |  |  |  |
| UN 3082   | UN 3082   | UN 3082  | UN 3082  | UN 3082  |
| <b>14.2. UN proper shipping name</b>  |   |  |  |  |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer)  | Environmentally hazardous substance, liquid, n.o.s. (aromatic polyisocyanate prepolymer)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer)                 |
| <b>Transport document description</b>   |   |  |  |  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer), 9, III, MARINE POLLUTANT (165°C c.c.) | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (aromatic polyisocyanate prepolymer), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic polyisocyanate prepolymer), 9, III |

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| ADR   | IMDG  | IATA  | ADN  | RID   |
|---|---|---|--|---|
| <b>14.3. Transport hazard class(es)</b>   |   |   |  |   |
| 9   | 9   | 9   | 9  | 9   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>  |   |   |  |   |
| III   | III   | III   | III  | III   |
| <b>14.5. Environmental hazards</b>  |   |   |  |   |
| Dangerous for the environment: Yes  | Dangerous for the environment: Yes<br>Marine pollutant: Yes                       | Dangerous for the environment: Yes  | Dangerous for the environment: Yes   | Dangerous for the environment: Yes  |
| No supplementary information available  |   |   |  |   |

### 14.6. Special precautions for user

#### Overland transport

|   |  |
|---|--|
| Classification code (ADR)   | : M6   |
| Special provisions (ADR)  | : 274, 335, 375, 601   |
| Limited quantities (ADR)  | : 5I   |
| Excepted quantities (ADR)   | : E1   |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001  |
| Special packing provisions (ADR)  | : PP1  |
| Mixed packing provisions (ADR)  | : MP19   |
| Portable tank and bulk container instructions (ADR)                     | : T4   |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29  |
| Tank code (ADR)   | : LGBV   |
| Vehicle for tank carriage   | : AT   |
| Transport category (ADR)  | : 3  |
| Special provisions for carriage - Packages (ADR)                        | : V12  |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13   |
| Hazard identification number (Kemler No.)                               | : 90   |
| Orange plates   | : <br> |

Tunnel restriction code (ADR) : -

#### Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : LP01, P001    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP1, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |

#### Air transport

PCA Excepted quantities (IATA) : E1

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|  |                   |
|--|-------------------|
| PCA Limited quantities (IATA)                | : Y964            |
| PCA limited quantity max net quantity (IATA) | : 30kgG           |
| PCA packing instructions (IATA)              | : 964             |
| PCA max net quantity (IATA)                  | : 450L            |
| CAO packing instructions (IATA)              | : 964             |
| CAO max net quantity (IATA)                  | : 450L            |
| Special provisions (IATA)                    | : A97, A158, A197 |
| ERG code (IATA)                              | : 9L              |

### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : M6                 |
| Special provisions (ADN)          | : 274, 335, 375, 601 |
| Limited quantities (ADN)          | : 5 L                |
| Excepted quantities (ADN)         | : E1                 |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

### Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)   | : M6                      |
| Special provisions (RID)  | : 274, 335, 375, 601      |
| Limited quantities (RID)  | : 5L                      |
| Excepted quantities (RID)   | : E1                      |
| Packing instructions (RID)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)  | : PP1                     |
| Mixed packing provisions (RID)  | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)  | : LGBV                    |
| Transport category (RID)  | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

##### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on  | Entry title or description  |
|----------------|--|---|
| 3(b)           | Structan Express ;<br>aromatic polyisocyanate prepolymer | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)           | Structan Express   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

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| EU restriction list (REACH Annex XVII) |   |   |
|--|---|---|
| Reference code                         | Applicable on   | Entry title or description  |
| 56.                                    | o-(p-isocyanatobenzyl)phenyl isocyanate ; 4,4'-methylenediphenyl diisocyanate | Methylenediphenyl diisocyanate (MDI)  |
| 56(a)                                  | 4,4'-methylenediphenyl diisocyanate   | Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate                           |
| 56(b)                                  | o-(p-isocyanatobenzyl)phenyl isocyanate                                       | Methylenediphenyl diisocyanate (MDI) isomers: 2,4'-Methylenediphenyl diisocyanate                           |
| 74.                                    | o-(p-isocyanatobenzyl)phenyl isocyanate ; 4,4'-methylenediphenyl diisocyanate | Diisocyanates, $O = C=N-R-N = C=O$ , with R an aliphatic or aromatic hydrocarbon unit of unspecified length |

### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### VOC Directive (2004/42)

VOC content :  $\leq 1,46 \%$

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Ecological information. Label elements. SDS EU format according to COMMISSION REGULATION (EU) 2020/878.

| 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             |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| 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                                     |
| 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                               |
| Acute Tox. 4<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Aquatic Chronic 2                      | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Carc. 2                             | Carcinogenicity, Category 2  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H319                                | Causes serious eye irritation.   |
| H332                                | Harmful if inhaled.  |
| H334                                | May cause allergy or asthma symptoms or breathing difficulties if inhaled.                 |
| H335                                | May cause respiratory irritation.  |
| H351                                | Suspected of causing cancer.   |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                         |
| H411                                | Toxic to aquatic life with long lasting effects.   |
| Resp. Sens. 1                       | Respiratory sensitisation, Category 1  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2                             |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                    |
|---|------|--------------------|
| Acute Tox. 4<br>(Inhalation:dust,mist)  | H332 | Calculation method |
| Skin Irrit. 2   | H315 | Calculation method |
| Eye Irrit. 2  | H319 | Calculation method |
| Resp. Sens. 1   | H334 | Calculation method |
| Skin Sens. 1  | H317 | Calculation method |
| Carc. 2   | H351 | Calculation method |
| STOT SE 3   | H335 | Calculation method |
| STOT RE 2   | H373 | Calculation method |
| Aquatic Chronic 2   | H411 | Calculation method |

Safety Data Sheet (SDS), EU-2022-2

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.