

## SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830



FX200 310ml  
> min. 80m

FX210 80ml  
> min. 20m

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MADE IN EU

PI502 - 10/2018

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name: Orac Decofix Extra  
Registration number REAC: Not applicable (mixture)  
Product type REACH: Mixture

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

1.2.1 Relevant identified uses

Adhesive

1.2.2 Uses advised against

No uses advised against known

#### 1.3. Company/undertaking identification

ORAC nv, Biekorfstraat 32, 8400 Ostend, Belgium  
T +32 (0)59 80 32 52 - F +32 (0)59 80 28 10  
info@oracdecor.com - www.oracdecor.com

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

ORAC nv, Biekorfstraat 32, 8400 Ostend, Belgium  
T +32 (0)59 80 32 52 - info@oracdecor.com

#### 1.5. Emergency telephone number

T +32 (0)59 80 32 52 (ORAC)

### 2. HAZARDS IDENTIFICATION

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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class       | Category   | Hazard statements   |
|-------------|------------|---|
| Carc.       | category 2 | H351: Suspected of causing cancer.  |
| Acute Tox.  | category 4 | H332: Harmful if inhaled.   |
| STOT RE     | category 2 | H373: May cause damage to organs through prolonged or repeated exposure if inhaled. |
| Eye Irrit.  | category 2 | H319: Causes serious eye irritation.  |
| STOT SE     | category 3 | H335: May cause respiratory irritation.   |
| Skin Irrit. | category 2 | H315: Causes skin irritation.   |
| Resp. Sens. | category 1 | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.    |
| Skin Sens.  | category 1 | H317: May cause an allergic skin reaction.  |

#### 2.2. Label elements



Contains: 4,4'-methylenediphenyl diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; aromatic polyisocyanate prepolymer.

Signal word: Danger

#### H-statements

|      |   |
|------|---|
| H351 | Suspected of causing cancer.  |
| H332 | Harmful if inhaled.   |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H319 | Causes serious eye irritation.  |
| H335 | May cause respiratory irritation.   |
| H315 | Causes skin irritation.   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.    |
| H317 | May cause an allergic skin reaction.  |

#### P-statements

|                    |  |
|--------------------|--|
| P101               | If medical advice is needed, have product container or label at hand.  |
| P102               | Keep out of reach of children.   |
| P280               | Wear protective gloves, protective clothing and eye protection/face protection.  |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P302 + P352        | IF ON SKIN: Wash with plenty of water and soap.  |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. |
| P312               | Call a POISON CENTER/doctor if you feel unwell.  |
| P501               | Dispose of contents/container in accordance with local/regional national/international regulation.   |

#### Supplemental information

- 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

No other hazards known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name/REACH Registration No

4,4'-methylenediphenyl diisocyanate / 01-2119457014-47

| CAS No                | Conc. (C) | Classification according to CLP   | Note          | Remark      |
|-----------------------|-----------|---|---------------|-------------|
| 101-68-8<br>202-966-0 | 10%<C<20% | Carc. 2; H351<br>Acute Tox. 4; 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 | (1)(2)(8)(10) | Constituent |

o-(p-isocyanatobenzyl)phenyl isocyanate / 01-2119480143-45

|                        |           |   |               |             |
|------------------------|-----------|---|---------------|-------------|
| 5873-54-1<br>227-534-9 | 10%<C<20% | Carc. 2; H351<br>Acute Tox. 4; 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 | (1)(2)(8)(10) | Constituent |
|------------------------|-----------|---|---------------|-------------|

aromatic polyisocyanate prepolymer

|            |        |  |         |             |
|------------|--------|--|---------|-------------|
| 99784-49-3 | C>50 % | Acute Tox. 4; 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 | (1)(10) | Constituent |
|------------|--------|--|---------|-------------|

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

#### 4. FIRST AID MEASURES

##### 4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration of oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

- After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

- After skin contact:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

- After eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents.

Take victim to an ophthalmologist if irritation persists.

- After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink.

Do not induce vomiting. Consult a doctor/medical service if you feel ill.

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

##### 4.2.1 Acute symptoms

- After inhalation:

Dry/sore throat. Coughing. Runny nose. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

- After skin contact:

Tingling/irritation of the skin.

- After eye contact:

Irritation of the eye tissue.

- After ingestion:

Irritation of the gastric/intestinal mucosa.

##### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### 5.1.1 Suitable extinguishing media:

Polyvalent foam. BC powder. Carbon dioxide. MAJOR FIRE: Water spray.

##### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). Reacts slowly with water (moisture): release of carbon dioxide.

#### 5.3. Advice for firefighters

##### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

##### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

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

No naked flames.

##### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

##### 6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

#### 6.2. Environmental precautions

Contain leaking substance. Dam up the solid spill. Use appropriate containment to avoid environmental contamination. Prevent spreading in sewers.

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

Scoop solid spill into closing containers. Containers must not be sealed hermetically. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces

with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

See heading 13.

### 7. HANDLING AND STORAGE

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

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

7.2.1 Safe storage requirements:

Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, (strong) acids, (strong) bases, alcohols, amines, water/moisture.

7.2.3 Suitable packaging material: Polyethylene.

7.2.4 Non suitable packaging material: No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex.

See information supplied by the manufacturer.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### the Netherlands

Difenylnmethaan-4,4'-diisocyaanat

Time-weighted average exposure limit 8 h (Private occupational exposure limit value):

0.0048 ppm

Time-weighted average exposure limit 8 h (Private occupational exposure limit value):

0.05 mg/m<sup>3</sup>

Short time value (Private occupational exposure limit value): 0.02 ppm

Short time value (Private occupational exposure limit value): 0.21 mg/m<sup>3</sup>

#### Belgium

4,4'-Diisocyanate de diphénylméthane (MDI)

Time-weighted average exposure limit 8 h: 0.005 ppm

Time-weighted average exposure limit 8 h: 0.052 mg/m<sup>3</sup>

#### USA (TLV-ACGIH)

Methylene bisphenyl isocyanate (MDI)

Time-weighted average exposure limit 8 h (TLV - Adopted Value): 0.005 ppm

#### Germany

4,4'-Methylendiphenyl-diisocyanat

Time-weighted average exposure limit 8 h (TRGS 900): 0.05 mg/m<sup>3</sup>

o-(p-isocyanatobenzyl)phenylisocyanat

Time-weighted average exposure limit 8 h (TRGS 900): 0.05 mg/m<sup>3</sup>

#### France

4,4'-Diisocyanate de diphénylméthane

Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative):

0.01 ppm

Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative):

0.1 mg/m<sup>3</sup>

Short time value (VL: Valeur non réglementaire indicative): 0.02 ppm

Short time value (VL: Valeur non réglementaire indicative): 0.2 mg/m<sup>3</sup>

#### UK

Isocyanates, all (as -NCO) Except methyl isocyanate

Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005):

0.02 mg/m<sup>3</sup>

Short time value (Workplace exposure limit (EH40/2005): 0.07 mg/m<sup>3</sup>

b) National biological limit values

If limit values are applicable and available these will be listed below.

### 8.1.2 Sampling methods

| Product name  | Test  | Number |
|---|-------|--------|
| 4,4'-Methylene Bisphenyl Isocyanate (MDI) (Isocyanates) | NIOSH | 5521   |
| 4,4'-Methylenebis(phenylisocyanate)                     | NIOSH | 5525   |
| Isocyanates   | NIOSH | 5521   |
| Isocyanates   | NIOSH | 5522   |
| Methylene Bisphenyl Isocyanate (MDI)                    | OSHA  | 18     |
| Methylene Bisphenyl Isocyanate (MDI)                    | OSHA  | 47     |
| Methylene Bisphenyl Isocyanate                          | OSHA  | 33     |

8.1.3 Applicable limit values when using the substance or mixture as intended  
If limit values are applicable and available these will be listed below.

### 8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

#### 4,4'-methylenediphenyl diisocyanate

| Effect level (DNEL/DMEL) | Type                               | Value                  |
|--------------------------|------------------------------------|------------------------|
| DNEL                     | Long-term local effects inhalation | 0.05 mg/m <sup>3</sup> |
|                          | Acute local effects inhalation     | 0.1 mg/m <sup>3</sup>  |

#### o-(p-isocyanatobenzyl)phenyl isocyanate

| Effect level (DNEL/DMEL) | Type                                  | Value                   |
|--------------------------|---------------------------------------|-------------------------|
| DNEL                     | Long-term systemic effects inhalation | 0.05 mg/m <sup>3</sup>  |
|                          | Acute systemic effects inhalation     | 0.1 mg/m <sup>3</sup>   |
|                          | Long-term local effects inhalation    | 0.05 mg/m <sup>3</sup>  |
|                          | Acute local effects inhalation        | 0.1 mg/m <sup>3</sup>   |
|                          | Acute systemic effects dermal         | 50 mg/kg bw/day         |
|                          | Acute local effects dermal            | 28.7 mg/cm <sup>3</sup> |

DNEL/DMEL - General population

#### 4,4'-methylenediphenyl diisocyanate

| Effect level (DNEL/DMEL) | Type                               | Value                   |
|--------------------------|------------------------------------|-------------------------|
| DNEL                     | Long-term local effects inhalation | 0.025 mg/m <sup>3</sup> |
|                          | Acute systemic effects inhalation  | 0.05 mg/m <sup>3</sup>  |

#### o-(p-isocyanatobenzyl)phenyl isocyanate

| Effect level (DNEL/DMEL) | Type                                  | Value                   |
|--------------------------|---------------------------------------|-------------------------|
| DNEL                     | Long-term systemic effects inhalation | 0.025 mg/m <sup>3</sup> |
|                          | Acute systemic effects inhalation     | 0.05 mg/m <sup>3</sup>  |
|                          | Long-term local effects inhalation    | 0.025 mg/m <sup>3</sup> |
|                          | Acute local effects inhalation        | 0.05 mg/m <sup>3</sup>  |
|                          | Acute systemic effects dermal         | 25 mg/kg bw/day         |
|                          | Acute local effects dermal            | 17.2 mg/cm <sup>3</sup> |
|                          | Acute systemic effects oral           | 20 mg/kg bw/day         |

PNEC

#### 4,4'-methylenediphenyl diisocyanate

| Compartment                  | Value           |
|------------------------------|-----------------|
| Fresh water                  | 1 mg/l          |
| Marine water                 | 0.1 mg/l        |
| Aqua (intermittent releases) | 10 mg/l         |
| STP                          | 1 mg/l          |
| Soil                         | 1 mg/kg soil dw |

#### o-(p-isocyanatobenzyl)phenyl isocyanate

| Compartment                  | Value           |
|------------------------------|-----------------|
| Fresh water                  | 1 mg/l          |
| Marine water                 | 0.1 mg/l        |
| Aqua (intermittent releases) | 10 mg/l         |
| STP                          | 1 mg/l          |
| Soil                         | 1 mg/kg soil dw |

### 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment  
Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

- Respiratory protection: Insufficient ventilation: wear respiratory protection.
- Hand protection: Gloves. materials (good resistance) Polyethylene.
- Eye protection: Safety glasses.
- Skin protection: Protective clothing.

8.2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

|                           |  |
|---------------------------|--|
| Physical form             | Paste  |
| Odour                     | Characteristic odour                                   |
| Odour threshold           | No data available                                      |
| Colour                    | Colourless   |
| Particle size             | No data available                                      |
| Explosion limits          | No data available                                      |
| Flammability              | Non-flammable  |
| Log Kow                   | Not applicable (mixture)                               |
| Dynamic viscosity         | No data available                                      |
| Kinematic viscosity       | No data available                                      |
| Melting point             | No data available                                      |
| Boiling point             | No data available                                      |
| Flash point               | > 165 °C   |
| Evaporation rate          | No data available                                      |
| Relative vapour density   | > 2  |
| Vapour pressure           | No data available                                      |
| Solubility                | water ; insoluble                                      |
| Relative density          | 1.1  |
| Decomposition temperature | No data available                                      |
| Auto-ignition temperature | No data available                                      |
| Explosive properties      | No chemical group associated with explosive properties |
| Oxidising properties      | No chemical group associated with oxidising properties |
| pH                        | No data available                                      |

### 9.2. Other information

Absolute density 1146 kg/m<sup>3</sup>

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Keep away from naked flames/heat.

### 10.5. Incompatible materials

(strong) acids, (strong) bases, alcohols, amines, water/moisture.

### 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). Reacts slowly with water (moisture): release of carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

##### ACUTE TOXICITY

Orac Decofix Extra: No (test)data on the mixture available

| 4,4'-methylenediphenyl diisocyanate     |                              |                        |                           |           |                      |                      |
|---|------------------------------|------------------------|---------------------------|-----------|----------------------|----------------------|
| Route of exposure                       | Parameter                    | Method                 | Value                     | Exp.time  | Species              | Value determination  |
| Oral                                    | LD50                         | Equivalent to OECD 401 | > 7616 mg/kg              |           | Rat (female)         | Read-across          |
| Dermal                                  | LD50                         | Equivalent to OECD 402 | > 9400 mg/kg bw           | 24 h      | Rabbit (male/female) | Read-across          |
| Dermal                                  | Percutaneous absorption rate | EPA OPPTS 870.7600     | 0.9 %                     | 8 h       | Rat (male)           | Experimental value   |
| Inhalation (aerosol)                    | LC50                         | Equivalent to OECD 403 | 0.49 mg/l air category 4  | 4 h       | Rat (male/female)    | Read-across Annex VI |
| o-(p-isocyanatobenzyl)phenyl isocyanate |                              |                        |                           |           |                      |                      |
| Route of exposure                       | Parameter                    | Method                 | Value                     | Exp. time | Species              | Value determination  |
| Oral                                    | LD50                         | Other                  | > 2000 mg/kg bw           |           | Rat (male/female)    | Read-across          |
| Dermal                                  | LD50                         | Equivalent to OECD 402 | > 9400 mg/kg bw           | 24 h      | Rabbit (male/female) | Read-across          |
| Inhalation (aerosol)                    | LC50                         | OECD 403               | 387 mg/m <sup>3</sup> air | 4 h       | Rat (male)           | Experimental value   |
| Inhalation (aerosol)                    | LC50                         | OECD 403               | 645 mg/m <sup>3</sup> air | 4 h       | Rat (female)         | Experimental value   |
| aromatic polyisocyanate prepolymer      |                              |                        |                           |           |                      |                      |
| Route of exposure                       | Parameter                    | Method                 | Value                     | Exp. time | Species              | Value determination  |
| Inhalation                              |                              |                        | category 4                |           |                      | Literature study     |

Classification is based on the relevant ingredients

##### Conclusion

Harmful if inhaled.

Not classified as acute toxic if swallowed

Not classified as acute toxic in contact with skin

##### CORROSION/IRRITATION

Orac Decofix Extra: No (test)data on the mixture available

| 4,4'-methylenediphenyl diisocyanate     |                           |          |       |                       |         |                     |
|---|---------------------------|----------|-------|-----------------------|---------|---------------------|
| Route of exposure                       | Result                    | Method   | Value | Exp.time              | Species | Value determination |
| Eye                                     | Slightly irritating       |          |       |                       | Rabbit  | Experimental value  |
| Eye                                     | Irritating                |          |       |                       | Human   | Weight of evidence  |
| Skin                                    | Irritating                | OECD 404 |       | 4 h 24; 48; 72 hours  | Rabbit  | Read-across         |
| Skin                                    | Irritating                |          |       |                       | Human   | Weight of evidence  |
| Inhalation                              | Irritating                |          |       |                       | Human   | Weight of evidence  |
| o-(p-isocyanatobenzyl)phenyl isocyanate |                           |          |       |                       |         |                     |
| Route of exposure                       | Result                    | Method   | Value | Exp.time              | Species | Value determination |
| Eye                                     | Irritating                |          |       |                       | Human   | Weight of evidence  |
| Eye                                     | Not irritating            | OECD 405 |       | 24 h 24; 48; 72 hours | Rabbit  | Read-across         |
| Skin                                    | Irritating                | OECD 404 |       | 4 h 24; 48; 72 hours  | Rabbit  | Read-across         |
| Skin                                    | Irritating                |          |       |                       | Human   | Weight of evidence  |
| Inhalation                              | Irritating                |          |       |                       | Human   | Weight of evidence  |
| aromatic polyisocyanate prepolymer      |                           |          |       |                       |         |                     |
| Route of exposure                       | Result                    | Method   | Value | Exp.time              | Species | Value determination |
| Eye                                     | Irritating; category 2    |          |       |                       |         | Literature study    |
| Skin                                    | Irritating; category 2    |          |       |                       |         | Literature study    |
| Inhalation                              | Irritating; STOT SE cat.3 |          |       |                       |         | Literature study    |

Classification is based on the relevant ingredients

##### Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Specific target organ toxicity, single exposure: classified as irritant to respiratory organs



## RESPIRATORY OR SKIN SENSITISATION

Orac Decofix Extra

No (test)data on the mixture available

| 4,4'-methylenediphenyl diisocyanate     |                         |                        |          |                        |                          |                     |
|---|-------------------------|------------------------|----------|------------------------|--------------------------|---------------------|
| Route of exposure                       | Result                  | Method                 | Exp.time | Observation time point | Species                  | Value determination |
| Skin                                    | Sensitizing             | OECD 429               |          |                        | Mouse                    | Experimental value  |
| Inhalation                              | Sensitizing             |                        |          |                        | Rat (male)               | Experimental value  |
| Inhalation                              | Sensitizing             |                        |          |                        | Guinea pig (female)      |                     |
| o-(p-isocyanatobenzyl)phenyl isocyanate |                         |                        |          |                        |                          |                     |
| Route of exposure                       | Result                  | Method                 | Exp.time | Observation time point | Species                  | Value determination |
| Skin                                    | Not sensitizing         | Equivalent to OECD 406 | 12 h     | 24; 48 hours           | Guinea pig (male/female) | Read-across         |
| Skin                                    | Sensitizing             |                        |          |                        |                          | Annex VI            |
| Inhalation                              | Sensitizing             | Other                  |          |                        | Guinea pig(female)       | Read-across         |
| Inhalation                              | Sensitizing             |                        |          |                        | Human (male)             | Weight of evidence  |
| aromatic polyisocyanate prepolymer      |                         |                        |          |                        |                          |                     |
| Route of exposure                       | Result                  | Method                 | Exp.time | Observation time point | Species                  | Value determination |
| Skin                                    | Sensitizing, category 1 |                        |          |                        |                          | Literature study    |
| Inhalation                              | Sensitizing, category 1 |                        |          |                        |                          | Literature study    |

Classification is based on the relevant ingredients

### Conclusion

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

## SPECIFIC TARGET ORGAN TOXICITY

Orac Decofix Extra

No (test)data on the mixture available

| 4,4'-methylenediphenyl diisocyanate     |           |                        |                            |                   |                                    |                                    |                   |                     |  |
|---|-----------|------------------------|----------------------------|-------------------|------------------------------------|------------------------------------|-------------------|---------------------|--|
| Route of exposure                       | Parameter | Method                 | Value                      | Organ             | Effect                             | Exp. time                          | Species           | Value determination |  |
| Inhalation (aerosol)                    | LOAEC     | Other                  | 0.23 mg/m <sup>3</sup> air | Lungs             | Lung tissue affection/degeneration | ≤ 104 weeks (17h/day, 5 days/week) | Rat (female)      | Experimental value  |  |
| o-(p-isocyanatobenzyl)phenyl isocyanate |           |                        |                            |                   |                                    |                                    |                   |                     |  |
| Route of exposure                       | Parameter | Method                 | Value                      | Organ             | Effect                             | Exp. time                          | Species           | Value determination |  |
| Inhalation (aerosol)                    | NOAEC     | Equivalent to OECD 453 | 0.2 mg/m <sup>3</sup> air  | Respiratory tract | No effect                          | 2 year(s) (6h/day, 5 days/week)    | Rat (male/female) | Read-across         |  |
| Inhalation (aerosol)                    | LOAEC     | Equivalent to OECD 453 | 1 mg/m <sup>3</sup> air    | Respiratory tract | Histopathology                     | 2 year(s) (6h/day, 5 days/week)    | Rat (male/female) | Read-across         |  |
| aromatic polyisocyanate prepolymer      |           |                        |                            |                   |                                    |                                    |                   |                     |  |
| Route of exposure                       | Parameter | Method                 | Value                      | Organ             | Effect                             | Exp. point                         | Species           | Value determination |  |
| Inhalation                              |           |                        | STOT RE cat.2              |                   |                                    |                                    |                   | Literature study    |  |

Classification is based on the relevant ingredients

### Conclusion

May cause damage to organs through prolonged or repeated exposure if inhaled.

Not classified as sub-chronically toxic in contact with skin

Not classified as sub-chronically toxic if swallowed

## MUTAGENICITY (IN VITRO)

Orac Decofix Extra

No (test)data on the mixture available

| 4,4'-methylenediphenyl diisocyanate                                       |                        |                          |           |                     |
|---|------------------------|--------------------------|-----------|---------------------|
| Result  | Method                 | Test substrate           | Effect    | Value determination |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value  |
| o-(p-isocyanatobenzyl)phenyl isocyanate                                   |                        |                          |           |                     |

|  |                           |   |                            |  |
|--|---------------------------|---|----------------------------|--|
| <b>Result</b><br>Negative with metabolic activation, negative without metabolic activation | <b>Method</b><br>OECD 471 | <b>Test substrate</b><br>Bacteria (S.typhimurium) | <b>Effect</b><br>No effect | <b>Value determination</b><br>Experimental value |
|--|---------------------------|---|----------------------------|--|

### MUTAGENICITY (IN VIVO)

Orac Decofix Extra  
No (test)data on the mixture available

|  |   |   |                                     |                  |  |
|--|---|---|-------------------------------------|------------------|--|
| <u>4,4'-methylenediphenyl diisocyanate</u>     |   |   |                                     |                  |  |
| <b>Result</b><br>Negative                      | <b>Method</b><br>Equivalent to OECD 471 | <b>Exp. time</b><br>3 weeks (1h/day<br>1day/week) | <b>Test substrate</b><br>Rat (male) | <b>Organ</b><br> | <b>Value determination</b><br>Experimental value |
| <u>o-(p-isocyanatobenzyl)phenyl isocyanate</u> |   |   |                                     |                  |  |
| <b>Result</b><br>Negative                      | <b>Method</b><br>OECD 474               | <b>Exp. time</b><br>3 weeks (1h/day<br>1day/week) | <b>Test substrate</b><br>Rat (male) | <b>Organ</b><br> | <b>Value determination</b><br>Read-Across        |

### CARCINOGENICITY

Orac Decofix Extra

| Route of exposure | Parameter | Method | Value      | Exp.time | Species | Effect | Organ | Value determination |
|-------------------|-----------|--------|------------|----------|---------|--------|-------|---------------------|
| Inhalation        |           |        | category 2 |          |         |        |       | Literature          |

|  |                           |   |   |  |   |   |                                   |  |
|--|---------------------------|---|---|--|---|---|-----------------------------------|--|
| <u>4,4'-methylenediphenyl diisocyanate</u>       |                           |   |   |  |   |   |                                   |  |
| <b>Route of exposure</b><br>Inhalation (aerosol) | <b>Parameter</b><br>NOAEC | <b>Method</b><br>other                  | <b>Value</b><br>0.7 mg/m <sup>3</sup> air | <b>Exp.time</b><br>104 weeks (17h/day,<br>5 days/week) | <b>Species</b><br>Rat (female)          | <b>Effect</b><br>No carcinogenic effect | <b>Organ</b><br>                  | <b>Value determination</b><br>Experimental value |
| <u>o-(p-isocyanatobenzyl)phenyl isocyanate</u>   |                           |   |   |  |   |   |                                   |  |
| <b>Route of exposure</b><br>Inhalation (aerosol) | <b>Parameter</b><br>NOAEC | <b>Method</b><br>Equivalent to OECD 453 | <b>Value</b><br>1 mg/m <sup>3</sup> air   | <b>Exp.time</b><br>2 years (6h/day,<br>5 days/week)    | <b>Species</b><br>Rat (female/<br>male) | <b>Effect</b><br>No effect              | <b>Organ</b><br>Respiratory tract | <b>Value determination</b><br>Read-Across        |
| <b>Route of exposure</b><br>Inhalation (aerosol) | <b>Parameter</b><br>LOAEC | <b>Method</b><br>Equivalent to OECD 453 | <b>Value</b><br>6 mg/m <sup>3</sup> air   | <b>Exp.time</b><br>2 years (6h/day,<br>5 days/week)    | <b>Species</b><br>Rat (female/<br>male) | <b>Effect</b><br>Tumor formation        | <b>Organ</b><br>Respiratory tract | <b>Value determination</b><br>Read-Across        |

### REPRODUCTIVE TOXICITY

Orac Decofix Extra

No (test)data on the mixture available

|  |                  |               |                         |                      |                |                             |              |                            |
|--|------------------|---------------|-------------------------|----------------------|----------------|-----------------------------|--------------|----------------------------|
| <u>4,4'-methylenediphenyl diisocyanate</u>     |                  |               |                         |                      |                |                             |              |                            |
|  | <b>Parameter</b> | <b>Method</b> | <b>Value</b>            | <b>Exp.time</b>      | <b>Species</b> | <b>Effect</b>               | <b>Organ</b> | <b>Value determination</b> |
| Development toxicity                           | NOAEL            | OECD 414      | 3 mg/m <sup>3</sup> air | 10 days,<br>(6h/day) | Rat (female)   | No effect                   |              | Experimental value         |
|  | LOAEL            | OECD 414      | 9 mg/m <sup>3</sup> air | 10 days,<br>(6h/day) | Rat (female)   | Embryotoxicity              |              | Experimental value         |
| Maternal toxicity                              | NOAEL            | OECD 414      | 4 mg/kg<br>bw/day       | 10 days              | Rat (female)   | No effect                   |              | Read-Across                |
| Effects on fertility                           |                  |               |                         |                      |                |                             |              | Data waiving               |
| <u>o-(p-isocyanatobenzyl)phenyl isocyanate</u> |                  |               |                         |                      |                |                             |              |                            |
| <b>Route of exposure</b>                       | <b>Parameter</b> | <b>Method</b> | <b>Value</b>            | <b>Exp.time</b>      | <b>Species</b> | <b>Effect</b>               | <b>Organ</b> | <b>Value determination</b> |
| Development toxicity                           | NOAEL            | OECD 414      | 4 mg/m <sup>3</sup> air | 10 days,<br>(6h/day) | Rat            | No adverse systemic effects |              | Read-Across                |
| Maternal toxicity                              | NOAEL            | OECD 414      | 4 mg/m <sup>3</sup> air | 10 days<br>(6h/day)  | Rat (female)   | No adverse systemic effects |              | Read-Across                |

Classification is based on the relevant ingredients

#### Conclusion CMR

Suspected of causing cancer.

Not classified for mutagenic or genotoxic toxicity

Not classified for reproxic or developmental toxicity

### TOXICITY OTHER EFFECTS

Orac Decofix Extra

No (test)data on the mixture available

| 4,4'-methylenediphenyl diisocyanate |        |              |       |        |          |              |                     |
|-------------------------------------|--------|--------------|-------|--------|----------|--------------|---------------------|
| Parameter                           | Method | Value        | Organ | Effect | Exp.time | Species      | Value determination |
| LD50                                |        | 100 mg/kg bw |       |        |          | mouse (male) | Experimental value  |

## CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

Orac Decofix Extra

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Itching. Skin rash/inflammation. Feeling of weakness. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Orac Decofix Extra

No (test) data on the mixture available

| 4,4'-methylenediphenyl diisocyanate      |           |                        |                      |           |                         |                     |                  |                                    |
|--|-----------|------------------------|----------------------|-----------|-------------------------|---------------------|------------------|------------------------------------|
|  | Parameter | Method                 | Value                | Duration  | Species                 | Test design         | Fresh/salt water | Value determination                |
| Acute toxicity fishes                    | LC50      | OECD 203               | > 1000 mg/l          | 96 h      | Danio rerio             | Static system       | Fresh water      | Read-across; Nominal concentration |
| Acute toxicity invertebrates             | EC50      | OECD 202               | 129.7 mg/l           | 24 h      | Daphnia magna           | Static system       | Fresh water      | Read-across; Locomotor effect      |
| Toxicity algae and other aquatic plants  | EC50      | OECD 201               | > 1640 mg/l          | 72 h      | Desmodesmus subspicatus | Static system       | Fresh water      | Read-across; Growth rate           |
| Long-term toxicity aquatic invertebrates | NOEC      | OECD 211               | ≥ 10 mg/l            | 21 day(s) | Daphnia magna           | Semi-static system  | Fresh water      | Read-across; Reproduction          |
| Toxicity aquatic micro-organisms         | EC50      | OECD 209               | > 100 mg/l           | 3 h       | Activated sludge        | Static system       | Fresh water      | Read-across; Nominal concentration |
| o-(p-isocyanatobenzyl)phenyl isocyanate  |           |                        |                      |           |                         |                     |                  |                                    |
|  | Parameter | Method                 | Value                | Duration  | Species                 | Test design         | Fresh/saltwater  | Value determination                |
| Acute toxicity fishes                    | LC50      | OECD 203               | > 1000 mg/l          | 96 h      | Brachydanio rerio       | Static system       | Fresh water      | Read-across; Nominal concentration |
| Acute toxicity invertebrates             | EC50      | OECD 202               | > 1000 mg/l          | 24 h      | Daphnia magna           | Static system       | Fresh water      | Read-across; Nominal concentration |
| Toxicity algae and other aquatic plants  | EC50      | OECD 201               | > 1640 mg/l          | 72 h      | Scenedesmus subspicatus | Static system       | Fresh water      | Read-across; GLP                   |
| Long-term toxicity aquatic invertebrates | NOEC      | OECD 211               | ≥ 10 mg/l            | 21 day(s) | Daphnia magna           | Semi-static system  | Fresh water      | Read-across; Nominal concentration |
| Toxicity aquatic micro-organisms         | EC50      | OECD 209               | > 100 mg/l           | 3 h       | Activated sludge        | Static system       | Fresh water      | Read-across; GLP                   |
|  | Parameter | Method                 | Value                | Duration  | Species                 | Value determination |                  |                                    |
| Toxicity soil macro-organisms            | NOEC      | OECD 207               | ≥ 1000 mg/kg soil dw | 14 day(s) | Eisenia fetida          | Read-across         |                  |                                    |
| Toxicity terrestrial plants              | NOEC      | Equivalent to OECD 208 | ≥ 1000 mg/kg soil dw | 14 day(s) | Avena sativa            | Read-across         |                  |                                    |
|  | NOEC      | Equivalent to OECD 208 | ≥ 1000 mg/kg soil dw | 14 day(s) | Lactuca sativa          | Read-across         |                  |                                    |

Judgement is based on the relevant ingredients

Conclusion: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

| 4,4'-methylenediphenyl diisocyanate     |              |                  |                                    |                     |
|---|--------------|------------------|------------------------------------|---------------------|
|   | Method       | Value            | Duration                           | Value determination |
| Biodegradation water                    | OECD 302C    | 0                | 28 day(s)                          | Read-across         |
|   | Method       | Value            | Conc. OH-radicals                  | Value determination |
| Phototransformation air (DT50 air)      | AOPWIN v1.92 | 0.92 day(s)      |                                    | QSAR                |
|   | Method       | Value            | Primary degradation/mineralisation | Value determination |
| Half-life water (t1/2 water)            | 20 h         |                  |                                    | Read-across         |
| o-(p-isocyanatobenzyl)phenyl isocyanate |              |                  |                                    |                     |
|   | Method       | Value            | Duration                           | Value determination |
| Biodegradation water                    | OECD 302C    | 0                | 28 day(s)                          | Read-across         |
|   | Method       | Value            | Conc. OH-radicals                  | Value determination |
| Phototransformation air (DT50 air)      | AOPWIN v1.92 | 0.89 day(s); GLP | 1500000 /cm <sup>3</sup>           | Experimental value  |
|   | Method       | Value            | Primary degradation/mineralisation | Value determination |
| Half-life water (t1/2 water)            | 20 h; GLP    |                  |                                    | Read-across         |

Conclusion: Contains non readily biodegradable component(s)



### 12.3. Bioaccumulative potential

#### Orac Decofix Extra

Log Kow

Remark: Not applicable (mixture)

#### 4,4'-methylenediphenyl diisocyanate

- BCF fishes

Parameter: BCF - Method: OECD 305 - Value: 92-200 - Duration: 4 week(s)

Species: Cyprinus carpio - Value determination: Experimental value

- Log Kow

Method: OECD 117 - Value: 5.22/4.51 - Temperature: 22 °C - Value determination:

Estimated value/Experimental value

#### o-(p-isocyanatobenzyl)phenyl isocyanate

- BCF fishes

Parameter: BCF - Method: OECD 305 - Value: 92-200 - Duration: 28 days -

Species: Cyprinus carpio - Value determination: Read-across

- Log Kow

Method: OECD 117 - Value: 4.51 - Temperature: 22 °C - Value determination:

conclusion by analogy.

#### aromatic polyisocyanate prepolymer

- Log Kow

Remark: No data available

Conclusion: Contains bioaccumulative component(s)

### 12.4. Mobility in soil

#### 4,4'-methylenediphenyl diisocyanate

Volatility (Henry's Law constant H)

Value: 8.95E-7 atm m<sup>3</sup>/mol - Temperature: 25 °C - Value determination:

Estimated value

Conclusion: No (test)data on mobility of the components available

### 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Other adverse effects

Orac Decofix Extra

- Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

- Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## 13. DISPOSAL CONSIDERATIONS

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

13.1.1 Provisions relating to waste

Hazardous waste according to Regulation (EU) No 1357/2014.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly.

All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## 14. TRANSPORT INFORMATION

### Road (ADR)

#### 14.1. UN number

Transport :Not subject

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Hazard identification number:

Class:

Classification code:

#### 14.4. Packing group

Packing group:

Labels:

#### 14.5. Environmental hazards

Environmentally hazardous substance mark: no

#### 14.6. Special precautions for user

Special provisions:

Limited quantities:

### Rail (RID)

#### 14.1. UN number

Transport: Not subject

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Hazard identification number:

Class:

Classification code:

#### 14.4. Packing group

Packing group:

Labels:

#### 14.5. Environmental hazards

Environmentally hazardous substance mark: no

#### 14.6. Special precautions for user

Special provisions:

Limited quantities:

### Inland waterways (ADN)

#### 14.1. UN number

Transport: Not subject

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Class:

Classification code:

#### 14.4. Packing group

Packing group:

Labels:

#### 14.5. Environmental hazards

Environmentally hazardous substance mark: no

#### 14.6. Special precautions for user

Special provisions:

Limited quantities:

Sea (IMDG/IMSBC)

#### 14.1. UN number

Transport: Not subject

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Class:

#### 14.4. Packing group

Packing group:

Labels:

#### 14.5. Environmental hazards

Marine pollutant:

Environmentally hazardous substance mark: no

#### 14.6. Special precautions for user

Special provisions:

Limited quantities:

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

Annex II of MARPOL 73/78

Air (ICAO-TI/IATA-DGR)

#### 14.1. UN number

Transport: Not subject

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

Class

#### 14.4. Packing group

Packing group:

Labels:

#### 14.5. Environmental hazards

Environmentally hazardous substance mark: no

#### 14.6. Special precautions for user

Special provision:s

Passenger and cargo transport: limited quantities: maximum net quantity per packaging

### 15. REGULATORY INFORMATION

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 0 %         |        |
| 0 g/l       |        |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

aromatic polyisocyanate prepolymer

*Designation of the substance, of the group of substances or of the mixture:*

Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:

(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;

(b) 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;

(c) hazard class 4.1;

(d) hazard class 5.1.

*Conditions of restriction:*

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  
- tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,  
- present an aspiration hazard and are labelled with R65 or H304.4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';  
b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';  
c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'

National legislation The Netherlands

Waste identification (the Netherlands) LWCA (the Netherlands): KGA category 03  
Waterbezwaarlijkheid: 10

National legislation Germany

- Orac Decofix Extra

WGK 1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

- 4,4'-methylenediphenyl diisocyanate

MAK - Krebserzeugend Kategorie:4

Schwangerschaft Gruppe: C

MAK 8-Stunden-Mittelwert mg/m<sup>3</sup>:

Diphenylmethan-4,4'-diisocyanat (MDI) (einatembare Fraktion); 0.05 mg/m<sup>3</sup>;  
gemessen als einatembare Fraktion (vgl. Abschn. Vd) S. 191)

TA-Luft: 5.2.5; I 5.2.5

- o-(p-isocyanatobenzyl)phenyl isocyanate

TA-Luft 5.2.5; I 5.2.5

National legislation France

- Orac Decofix Extra

No data available

- 4,4'-methylenediphenyl diisocyanate

Catégorie cancérogène C2

National legislation Belgium

- Orac Decofix Extra

No data available

Other relevant data

- Orac Decofix Extra

No data available

- 4,4'-methylenediphenyl diisocyanate

IARC-classification 3; 4,4'-methylenediphenyl diisocyanate and polymeric

4,4'-methylenediphenyl diisocyanate

**15.2. Chemical safety assessment**

No chemical safety assessment is required.

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