



DEKOFLEX-PU
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** DEKOFLEX-PU
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- Other means of identification:**
- UFI:** 1DA0-50Y7-400S-QJWV
- Product registration number:** 0000000000004031 - 4032 - 4033
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant uses: Sealant . For professional users only.
- Use as Adhesive and Sealant, Professional Use:
SU: 17, 19
ERC: 5, 8b
PROC: 10, 8a, 8b
PC: 1
- Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
- LATICRETE EUROPE SRL a socio unico
Via Paletti snc
41051 Castelnuovo Rangone - Italia
Phone: +39 059 535 540 - Fax: +39 059 538 338
sicurezza@benfer.it
<http://www.benfer.it>
- 1.4 Emergency telephone number:** NHS Direct (UK): +44 0845 46 47
Europe's emergency number: 112
Company number (08:00 - 18:00 CET): (+39) 059 535540

SECTION 2: HAZARDS IDENTIFICATION **

- 2.1 Classification of the substance or mixture:**
- CLP Regulation (EC) No 1272/2008:**
- Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
- Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334
- 2.2 Label elements:**
- CLP Regulation (EC) No 1272/2008:**
- Danger**
-
- Hazard statements:**
- Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Precautionary statements:**
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P284: Wear respiratory protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Supplementary information:**
- EUH204: Contains isocyanates. May produce an allergic reaction.
- Additional Labelling:**
- As from 24 August 2023 adequate training is required before industrial or professional use.
- UFI:** 1DA0-50Y7-400S-QJWV
- 2.3 Other hazards:**

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



DEKOFLEX-PU
0000000000004031

SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product fails to meet PBT/vPvB criteria
The product contains substances with endocrine-disrupting properties: tris(nonylphenyl) phosphite

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Polyurethane prepolymer

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|---|---|---------------|
| CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX | Xylene⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger | 5 - <6 % |
| CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5 REACH: 01-2119475103-46-XXXX | Ethyl acetate⁽¹⁾ ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger | 1 - <1,5 % |
| CAS: 9016-87-9 EC: 618-498-9 Index: Non-applicable REACH: Non-applicable | 4,4'-methylenediphenyl diisocyanate, isomers and homologues⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger | 0,5 - <0,6 % |
| CAS: 52829-07-9 EC: 258-207-9 Index: Non-applicable REACH: 01-2119537297-32-XXXX | Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Repr. 2: H361f - Danger | 0,3 - <0,35 % |
| CAS: 101-68-8 EC: 202-966-0 Index: 615-005-00-9 REACH: 01-2119457014-47-XXXX | 4,4'-methylenediphenyl diisocyanate⁽¹⁾ ATP CLP00 Regulation 1272/2008 Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger | 0,25 - <0,3 % |
| CAS: 26523-78-4 EC: 247-759-6 Index: 015-202-00-4 REACH: 01-2119520601-54-XXXX | tris(nonylphenyl) phosphite⁽¹⁾ ATP ATP03 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning | 0,2 - <0,25 % |

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

| Identification | Specific concentration limit |
|--|---|
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues CAS: 9016-87-9 EC: 618-498-9 | % (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319 % (w/w) >=0,1: Resp. Sens. 1 - H334 % (w/w) >=5: STOT SE 3 - H335 |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | % (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319 % (w/w) >=0,1: Resp. Sens. 1 - H334 % (w/w) >=5: STOT SE 3 - H335 |

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

- CONTINUED ON NEXT PAGE -



DEKOFLEX-PU
0000000000004031

SECTION 4: FIRST AID MEASURES (continued)

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

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DEKOFLEX-PU
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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

it is recommended to avoid environmental spillage of both the product and its container

6.3 Methods and material for containment and cleaning up:

It is recommended:

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | Occupational exposure limits | | |
|--|------------------------------|------------------------|--|
| | IOELV (8h) | IOELV (STEL) | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | 50 ppm | 221 mg/m ³ | |
| | 100 ppm | 442 mg/m ³ | |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | 200 ppm | 734 mg/m ³ | |
| | 400 ppm | 1468 mg/m ³ | |

Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | Systemic | Local | Systemic | Local |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 212 mg/kg | Non-applicable |
| | Inhalation | 442 mg/m ³ | 442 mg/m ³ | 221 mg/m ³ | 221 mg/m ³ |

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DEKOFLEX-PU
0000000000004031

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|--|------------|------------------------|------------------------|------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 63 mg/kg | Non-applicable |
| | Inhalation | 1468 mg/m ³ | 1468 mg/m ³ | 734 mg/m ³ | 734 mg/m ³ |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues CAS: 9016-87-9 EC: 618-498-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | 0,1 mg/m ³ | Non-applicable | 0,05 mg/m ³ |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 0,5 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 0,68 mg/m ³ | Non-applicable |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | 0,1 mg/m ³ | Non-applicable | 0,05 mg/m ³ |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 16,7 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 23,6 mg/m ³ | Non-applicable |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|--|------------|-----------------------|------------------------|------------------------|-------------------------|
| | | Systemic | Local | Systemic | Local |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | 12,5 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 125 mg/kg | Non-applicable |
| | Inhalation | 260 mg/m ³ | 260 mg/m ³ | 65,3 mg/m ³ | 65,3 mg/m ³ |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | Oral | Non-applicable | Non-applicable | 4,5 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 37 mg/kg | Non-applicable |
| | Inhalation | 734 mg/m ³ | 734 mg/m ³ | 367 mg/m ³ | 367 mg/m ³ |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues CAS: 9016-87-9 EC: 618-498-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | 0,05 mg/m ³ | Non-applicable | 0,025 mg/m ³ |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | Oral | Non-applicable | Non-applicable | 0,05 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 0,25 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 0,17 mg/m ³ | Non-applicable |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | 0,05 mg/m ³ | Non-applicable | 0,025 mg/m ³ |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | Oral | Non-applicable | Non-applicable | 1,67 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 8,35 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 11,8 mg/m ³ | Non-applicable |

PNEC:

| Identification | | | | | |
|---|--------------|----------------|-------------------------|-------------|--|
| Xylene CAS: 1330-20-7 EC: 215-535-7 | STP | 6,58 mg/L | Fresh water | 0,327 mg/L | |
| | Soil | 2,31 mg/kg | Marine water | 0,327 mg/L | |
| | Intermittent | 0,327 mg/L | Sediment (Fresh water) | 12,46 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 12,46 mg/kg | |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | STP | 650 mg/L | Fresh water | 0,24 mg/L | |
| | Soil | 0,148 mg/kg | Marine water | 0,024 mg/L | |
| | Intermittent | 1,65 mg/L | Sediment (Fresh water) | 1,15 mg/kg | |
| | Oral | 0,2 g/kg | Sediment (Marine water) | 0,115 mg/kg | |

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DEKOFLEX-PU
0000000000004031

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | |
|--|--------------|----------------|-------------------------|----------------|
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues CAS: 9016-87-9 EC: 618-498-9 | STP | 1 mg/L | Fresh water | 1 mg/L |
| | Soil | 1 mg/kg | Marine water | 0,1 mg/L |
| | Intermittent | 10 mg/L | Sediment (Fresh water) | Non-applicable |
| | Oral | Non-applicable | Sediment (Marine water) | Non-applicable |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | STP | 1 mg/L | Fresh water | 0,019 mg/L |
| | Soil | 5,9 mg/kg | Marine water | 0,002 mg/L |
| | Intermittent | 0,007 mg/L | Sediment (Fresh water) | 29 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 2,9 mg/kg |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | STP | 1 mg/L | Fresh water | 1 mg/L |
| | Soil | 1 mg/kg | Marine water | 0,1 mg/L |
| | Intermittent | 10 mg/L | Sediment (Fresh water) | Non-applicable |
| | Oral | Non-applicable | Sediment (Marine water) | Non-applicable |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | STP | 1,8 mg/L | Fresh water | 0,05 mg/L |
| | Soil | Non-applicable | Marine water | 0,05 mg/L |
| | Intermittent | 0,05 mg/L | Sediment (Fresh water) | 0,15 mg/kg |
| | Oral | 0,037 g/kg | Sediment (Marine water) | 0,15 mg/kg |

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|--|-----------|---|---|
| | Filter mask for gases, vapours and particles | | EN 149:2001+A1:2009 EN 405:2002+A1:2010 EN ISO 136:1998 | Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. |

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|---|-----------|-------------------|--|
| | Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) | | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|---|-----------|---------------------------------|---|
| | Panoramic glasses against splash/projections. | | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|---------------|-----------|--------------|---|
| | Work clothing | | | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |

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DEKOFLEX-PU
0000000000004031

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|----------------------|-----------|-------------------|---|
| | Anti-slip work shoes | | EN ISO 20347:2012 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007 |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|-------------------|---|-------------------|--|
| Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 | Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---------------------------|-------------------------------------|
| V.O.C. (Supply): | 7,3 % weight |
| V.O.C. density at 20 °C: | 78,86 kg/m ³ (78,86 g/L) |
| Average carbon number: | 7,23 |
| Average molecular weight: | 102,73 g/mol |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES **

9.1 Information on basic physical and chemical properties:

Appearance:

| | |
|--------------------------|--|
| Physical state at 20 °C: | Solid |
| Appearance: | Paste |
| Colour: | According to the markings on the package |
| Odour: | Characteristic |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|------------------|
| Boiling point at atmospheric pressure: | Non-applicable * |
| Vapour pressure at 20 °C: | Non-applicable * |
| Vapour pressure at 50 °C: | Non-applicable * |
| Evaporation rate at 20 °C: | Non-applicable * |

Product description:

| | |
|--|--------------------------|
| Density at 20 °C: | 1080,2 kg/m ³ |
| Relative density at 20 °C: | 1,08 |
| Dynamic viscosity at 20 °C: | 50000 - 135000 cP |
| Kinematic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 40 °C: | >20,5 mm ² /s |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 20 °C: | Non-applicable * |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable * |
| Solubility in water at 20 °C: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



DEKOFLEX-PU
0000000000004031

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES ** (continued)

Solubility properties: Insoluble in water
 Decomposition temperature: Non-applicable *
 Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: Non-applicable
 Flammability (solid, gas): Non-applicable *
 Autoignition temperature: 427 °C
 Lower flammability limit: Non-applicable *
 Upper flammability limit: Non-applicable *

Explosive (Solid):

Lower explosive limit: Non-applicable *
 Upper explosive limit: Non-applicable *

Particle characteristics:

Median equivalent diameter: Non-applicable *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *
 Oxidising properties: Non-applicable *
 Corrosive to metals: Non-applicable *
 Heat of combustion: Non-applicable *
 Aerosols-total percentage (by mass) of flammable components: Non-applicable *

Other safety characteristics:

Surface tension at 20 °C: Non-applicable *
 Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

** Changes with regards to the previous version

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable | Not applicable | Precaution | Precaution | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

- CONTINUED ON NEXT PAGE -



DEKOFLEX-PU
0000000000004031

SECTION 11: TOXICOLOGICAL INFORMATION **

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
IARC: Xylene (3); 4,4'-methylenediphenyl diisocyanate, isomers and homologues (3); 4,4'-methylenediphenyl diisocyanate (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

** Changes with regards to the previous version



DEKOFLEX-PU
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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

| Identification | Acute toxicity | | Genus |
|---|----------------|----------------|---------------|
| | LD50 oral | LD50 dermal | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | 2100 mg/kg | 1100 mg/kg | Rat |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | 4100 mg/kg | 20000 mg/kg | Rat Rabbit |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | 3700 mg/kg | Non-applicable | Rat |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | 7616 mg/kg | 10000 mg/kg | Rat Rabbit |

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

| Identification | Concentration | Species | Genus |
|---|-----------------------|---------------------------------|------------|
| | | | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | >10 - 100 mg/L (96 h) | | Fish |
| | >10 - 100 mg/L (48 h) | | Crustacean |
| | >10 - 100 mg/L (72 h) | | Algae |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | 230 mg/L (96 h) | Pimephales promelas | Fish |
| | 717 mg/L (48 h) | Daphnia magna | Crustacean |
| | 3300 mg/L (48 h) | Scenedesmus subspicatus | Algae |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | 5,3 mg/L (96 h) | Oryzias latipes | Fish |
| | 8,6 mg/L (48 h) | Daphnia magna | Crustacean |
| | 0,7 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | 1000 mg/L (96 h) | Brachydanio rerio | Fish |
| | Non-applicable | | |
| | Non-applicable | | |
| tris(nonylphenyl) phosphite CAS: 26523-78-4 EC: 247-759-6 | >0.1 - 1 mg/L (96 h) | | Fish |
| | >0.1 - 1 mg/L (48 h) | | Crustacean |
| | >0.1 - 1 mg/L (72 h) | | Algae |

Chronic toxicity:

| Identification | Concentration | | Species | Genus |
|--|---------------|----------------|---------------------|------------|
| | NOEC | Concentration | | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | NOEC | 1,3 mg/L | Oncorhynchus mykiss | Fish |
| | NOEC | 1,17 mg/L | Ceriodaphnia dubia | Crustacean |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | NOEC | 9,65 mg/L | Pimephales promelas | Fish |
| | NOEC | 2,4 mg/L | Daphnia magna | Crustacean |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | NOEC | Non-applicable | | |
| | NOEC | 0,23 mg/L | Daphnia magna | Crustacean |

** Changes with regards to the previous version

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DEKOFLEX-PU
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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Concentration | | Species | Genus |
|--|---------------|----------------|---------------|------------|
| | NOEC | Non-applicable | | |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | NOEC | 10 mg/L | Daphnia magna | Crustacean |

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Degradability | | Biodegradability | |
|---|---------------|----------------|------------------|----------------|
| | BOD5 | Non-applicable | Concentration | Non-applicable |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 88 % |
| | BOD5 | 1,36 g O2/g | Concentration | 100 mg/L |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | COD | 1,69 g O2/g | Period | 14 days |
| | BOD5/COD | 0,8 | % Biodegradable | 83 % |
| | BOD5 | Non-applicable | Concentration | 20 mg/L |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS: 52829-07-9 EC: 258-207-9 | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 29 % |

12.3 Bioaccumulative potential:

Substance-specific information:

| Identification | Bioaccumulation potential | |
|---|---------------------------|----------|
| | BCF | Pow Log |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | 9 | 2.77 |
| | Potential | Low |
| | BCF | 30 |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | 0.73 | Moderate |
| | Potential | Moderate |
| | BCF | 150 |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | 4.51 | High |
| | Potential | High |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|---|-----------------------|--------------------------|------------|-------------------------------|
| | Koc | 202 | Henry | 524,86 Pa·m ³ /mol |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | Non-applicable | Moist soil | Yes |
| | Koc | 59 | Henry | 13,58 Pa·m ³ /mol |
| Ethyl acetate CAS: 141-78-6 EC: 205-500-4 | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2,324E-2 N/m (25 °C) | Moist soil | Yes |
| | Koc | Non-applicable | Henry | Non-applicable |
| 4,4'-methylenediphenyl diisocyanate CAS: 101-68-8 EC: 202-966-0 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| | Surface tension | 2,068E-2 N/m (283,45 °C) | Moist soil | Non-applicable |

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Contains tris(nonylphenyl) phosphite. A substance shall be considered as having endocrine-disrupting properties that may cause adverse effects on non-target organisms if: (a) it shows an adverse effect in non-target organisms, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences
(b) it has an endocrine mode of action, i.e. it alters the function(s) of the endocrine system
(c) the adverse effect is a consequence of the endocrine mode of action.

12.7 Other adverse effects:

Not described

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



DEKOFLEX-PU
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|----------|---|--|
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 | Non dangerous |

Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

- 14.1 UN number or ID number:** Non-applicable
- 14.2 UN proper shipping name:** Non-applicable
- 14.3 Transport hazard class(es):** Non-applicable
- Labels: Non-applicable
- 14.4 Packing group:** Non-applicable
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
- Special regulations: Non-applicable
- Tunnel restriction code: Non-applicable
- Physico-Chemical properties: see section 9
- Limited quantities: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

- 14.1 UN number or ID number:** Non-applicable
- 14.2 UN proper shipping name:** Non-applicable
- 14.3 Transport hazard class(es):** Non-applicable
- Labels: Non-applicable
- 14.4 Packing group:** Non-applicable
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
- Special regulations: Non-applicable
- EmS Codes:
- Physico-Chemical properties: see section 9
- Limited quantities: Non-applicable
- Segregation group: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

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DEKOFLEX-PU
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SECTION 14: TRANSPORT INFORMATION (continued)

| | |
|--|----------------|
| 14.1 UN number or ID number: | Non-applicable |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Environmental hazards: | No |
| 14.6 Special precautions for user | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Maritime transport in bulk according to IMO instruments: | Non-applicable |

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): tris(nonylphenyl) phosphite
Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
Article 95, REGULATION (EU) No 528/2012: Non-applicable
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):



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SECTION 15: REGULATORY INFORMATION (continued)

Contains more than 0.1 % of 4,4'-methylenediphenyl diisocyanate, isomers and homologues, 4,4'-methylenediphenyl diisocyanate by weight. 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".

3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.

4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:

(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).

(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:

- handling open mixtures at ambient temperature (including foam tunnels)
- spraying in a ventilated booth
- application by roller
- application by brush
- application by dipping and pouring
- mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore
- cleaning and waste
- any other uses with similar exposure through the dermal and/or inhalation route

(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:

- handling incompletely cured articles (e.g. freshly cured, still warm)
- foundry applications
- maintenance and repair that needs access to equipment
- open handling of warm or hot formulations (> 45 °C)
- spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers)
- and any other uses with similar exposure through the dermal and/or inhalation route.

5. Training elements:

(a) general training, including on-line training, on:

- chemistry of diisocyanates
- toxicity hazards (including acute toxicity)
- exposure to diisocyanates
- occupational exposure limit values
- how sensitisation can develop
- odour as indication of hazard
- importance of volatility for risk
- viscosity, temperature, and molecular weight of diisocyanates
- personal hygiene
- personal protective equipment needed, including practical instructions for its correct use and its limitations
- risk of dermal contact and inhalation exposure
- risk in relation to application process used
- skin and inhalation protection scheme
- ventilation
- cleaning, leakages, maintenance
- discarding empty packaging
- protection of bystanders
- identification of critical handling stages
- specific national code systems (if applicable)
- behaviour-based safety
- certification or documented proof that training has been successfully completed

(b) intermediate level training, including on-line training, on:

- additional behaviour-based aspects
- maintenance

- CONTINUED ON NEXT PAGE -



DEKOFLEX-PU
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SECTION 15: REGULATORY INFORMATION (continued)

- management of change
 - evaluation of existing safety instructions
 - risk in relation to application process used
 - certification or documented proof that training has been successfully completed
- (c) advanced training, including on-line training, on:
- any additional certification needed for the specific uses covered
 - spraying outside a spraying booth
 - open handling of hot or warm formulations (> 45 °C)
 - certification or documented proof that training has been successfully completed
6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.
7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.
8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.
9. Member States shall include in their reports pursuant to Article 117(1) the following information:
- (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law
 - (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates
 - (c) national exposure limits for diisocyanates, if there are any
 - (d) information about enforcement activities related to this restriction.
10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.
- Contains more than 0.1 % of 4,4'-methylenediphenyl diisocyanate, 4,4'-methylenediphenyl diisocyanate, isomers and homologues by weight. This product may not be distributed in its present form for first-time sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of Regulation (EU) 2016/425.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

** Changes with regards to the previous version



DEKOFLEX-PU
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SECTION 16: OTHER INFORMATION ** (continued)

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
 - Ethyl acetate (141-78-6)
 - 4,4'-methylenediphenyl diisocyanate (101-68-8)
 - tris(nonylphenyl) phosphite (26523-78-4)
 - Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)
 - Xylene (1330-20-7)
- Removed substances
 - Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate 1,1'-metilenebis[isocianatobenzene], polimero con 1,2-etandiamina, metilossirano ed ossirano (1431134-22-3)
 - Modified methane diisocyanate (MDI) (39420-98-9)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements
- Supplementary information

Information on basic physical and chemical properties (SECTION 9):

- Flash Point

Content of the 3rd section presenting modifications (SECTION 3):

- tris(nonylphenyl) phosphite (26523-78-4): Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH)

Texts of the legislative phrases mentioned in section 2:

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

- Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.
- Acute Tox. 4: H332 - Harmful if inhaled.
- Aquatic Acute 1: H400 - Very toxic to aquatic life.
- Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
- Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
- Carc. 2: H351 - Suspected of causing cancer.
- Eye Dam. 1: H318 - Causes serious eye damage.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Repr. 2: H361f - Suspected of damaging fertility.
- Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
- STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
- STOT SE 3: H335 - May cause respiratory irritation.
- STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Resp. Sens. 1: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

Abbreviations and acronyms:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Safety data sheet



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SECTION 16: OTHER INFORMATION ** (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

*** Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -