



# Rubberfill 310ml

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Date of issue: 30.09.2020

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

#### 1.1. Product identifier

Product form : Mixtures  
Trade name : Rubberfill 310ml  
Type of product : Adhesives, sealants

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

##### 1.2.1. Relevant identified uses

Intended for general public

##### 1.2.2. Uses advised against

No additional information available

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

Wayside Adhesives Ltd.

23 Main Road, Radcliffe on  
Trent, Notts, NG12 2BE

01159 33 33 21 –

info@waysideadhesives.com

#### 1.4. Emergency telephone number

Emergency number 999

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



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### SECTION 2: Hazards identification

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

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

Not determined

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

Precautionary statements (CLP)

: P102 - Keep out of reach of children

EUH204 - Contains isocyanates. May produce an allergic reaction

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

Security closing plug for children

: Not applicable

Tactile warning

: Not applicable

#### 2.3. Other hazards

This product does not contain any substance(s) classified as PBT or vPvB and does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605



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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32	< 2.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	> 1	Not classified
	(REACH-no) 01-2119489379-		

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EN (English)

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	170016		
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate	(CAS No) 101-68-8 (EC no) 202-966-0 (EC index no) 615-005-00-9 (REACH-no) 01-2119457014470000	< 0.1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
<b>Specific concentration limits:</b>			
Name	Product identifier	Specific concentration limits	
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate	(CAS No) 101-68-8 (EC no) 202-966-0 (EC index no) 615-005-00-9 (REACH-no) 01-2119457014470000	(C >= 0.1) Resp. Sens. 1, H334 (C >= 5) Eye Irrit. 2, H319 (C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335	

Full text of H-statements: see section 16



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

Hazardous decomposition products in case of fire : Toxic fumes may be released. fire  
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#### 5.3. Advice for firefighters

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



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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Evacuate personnel to a safe area. Avoid breathing vapours.

##### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up

: Take up liquid spill into absorbent material.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions

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

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

No additional information available



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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Masterseal PU

##### EU - Occupational Exposure Limits

Local name	Xylene, mixed isomers, pure
IOELV TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
IOELV STEL (ppm)	100 ppm
Notes	Skin

Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
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##### Austria - Occupational Exposure Limits

Local name	Diphenylmethan-4,4'-diisocyanat
MAK (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
MAK (ppm)	0.005 ppm
MAK Short time value (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>

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##### Masterseal PU

MAK Short time value (ppm)	0.01 ppm
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Remark (AT)	Sah
Regulatory reference	BGBl. II Nr. 186/2015
<b>Belgium - Occupational Exposure Limits</b>	
Local name	4,4'-Diisocyanate de diphénylméthane (MDI) # Difenylmethaan-4,4'-di-isocyanat (MDI)
Limit value (mg/m <sup>3</sup> )	0.052 mg/m <sup>3</sup>
Limit value (ppm)	0.005 ppm
Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Short time value (ppm)	100 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Ксилен (смес от изомери), чист
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Ksilen (svi izomeri)
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>



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GVI (granična vrijednost izloženosti) (ppm)	50 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Naznake (HR)	Direktiva: 2000/39/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
<b>Croatia - Biological limit values</b>	
Local name	Ksilen
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Difenylmethan-4,4'-diisokyanát (1,1'-Methylenbis(4-isokyanatobenzen))
Expoziční limity (PEL) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	0.005 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	0.01 ppm
Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůži), S (látka má senzibilizační účinek)
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Diphenylmethan-4,4'-diisocyanat (MDI; Methylenbis(phenylisocyanat))
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>

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<b>Masterseal PU</b>	
Grænseværdie (langvarig) (ppm)	0.005 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 655 af 31/05/2018





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Estonia - Occupational Exposure Limits	
Local name	4,4'-metüleendifenüül-diisotsüanaat (fenüülisotsüanaat)
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
OEL TWA (ppm)	0.005 ppm
OEL STEL (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
OEL Ceiling (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
OEL Ceiling (ppm)	0.01 ppm
Remark (ET)	S (Sensibiliseerivad ained), 2 (Arvutatud 5-minutisele kokkupuuteajale)
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)



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Finland - Occupational Exposure Limits	
Local name	Ksyleeni
HTP-arvo (8h) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	440 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	100 ppm
Huomautus (FI)	iho
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
Finland - Biological limit values	
Local name	Ksyleeni
Finland - BLV	5 mmol/l Parametri: Virtsan metyylihippuurihappo - Näytteenottoajankohta: Työvuoron päätyttyä
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	4,4'-Diisocyanate de diphénylméthane
VME (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
VME (ppm)	0.01 ppm
VLE (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
VLE (ppm)	0.02 ppm
Note (FR)	Valeurs recommandées/admises; certaines ou toutes ces VLE s'entendent pour des concentrations mesurées sur une durée de 5 min; risque d'allergie respiratoire, substance classée cancérogène de catégorie 2
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	4,4'-Methylen-diphenyldiisocyanat
Occupational exposure limit value (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (E)

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Masterseal PU	
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks	1;=2=(I)



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TRGS 900 Remark	DFG;11;12;H;Sah;Y
TRGS 900 Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	



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TRGS 903 Local name	Xylol (alle Isomere)
TRGS 903 Biological limit value	2000 mg/l Parameter: Methylhippur-(Tolur-) säure (alle Isomere) - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 11/2016 DFG
TRGS 903 Regulatory reference	TRGS 903
<b>Gibraltar - Occupational Exposure Limits</b>	
Name of agent	Xylene, mixed isomers, pure
Eight hours mg/m <sup>3</sup>	221 mg/m <sup>3</sup>
Eight hours ppm	50 ppm
Short-term mg/m <sup>3</sup>	442 mg/m <sup>3</sup>
Short-term ppm	100 ppm
Notation	Skin
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Δισοκυανικός εστέρας του διφαινυλομεθάνιου (MDI)
OEL TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
OEL TWA (ppm)	0.02 ppm
OEL STEL (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
OEL STEL (ppm)	0.02 ppm
Regulatory reference	Π.Δ. 90/1999
<b>Hungary - Occupational Exposure Limits</b>	
Local name	difenilmetán-4,4'-diizocianát (MDI)
AK-érték	0.05 mg/m <sup>3</sup>
CK-érték	0.05 mg/m <sup>3</sup>
<b>Hungary - Biological limit values</b>	
Local name	Xilol
Regulatory reference	25/2000. (IX. 30.) EüM-SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
<b>Ireland - Occupational Exposure Limits</b>	
Local name	4,4'-Methylene-diphenyl diisocyanate (as —NCO)
OEL (8 hours ref) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	0.005 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>



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OEL (15 min ref) (ppm)	100 ppm
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#### Italy - Occupational Exposure Limits

Local name	Xilene, isomeri misti, puro
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.

#### Latvia - Occupational Exposure Limits

Local name	Ksilols (o-,m-,p-ksilols, dimetilbenzols)
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm



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Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Metileno bisfenilizocianatas (MDI)
IPRV (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
IPRV (ppm)	0.005 ppm
TPRV (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
TPRV (ppm)	100 ppm
NRV (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
NRV (ppm)	0.01 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	Xylène, isomères mixtes, purs
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm



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OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Regulatory reference	Mémorial A N° 684 de 2018
<b>Malta - Occupational Exposure Limits</b>	
Local name	Xylene, mixed isomers, pure # Xylene, Isomeri mhallta, puri
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Regulatory reference	S.L.424.24 (L.N.57 of 2018)

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#### Netherlands - Occupational Exposure Limits

Local name	Xyleen, o-, m-, p-isomeren
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>

#### Poland - Occupational Exposure Limits

Local name	Metylenobis(fenylizocyanian) (diizocyanian 4,4'-metylenodifenyli)
NDS (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	0.09 mg/m <sup>3</sup>



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Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową)
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metilendifenilisocianato (MDI)
OEL TWA (ppm)	0.005 ppm
OEL STEL (ppm)	150 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological limit values</b>	
Local name	Xilenos (graus técnico e comercial)





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Portugal (BEI)	1.5 g/g creatinine Parâmetro: Ácidos (o, m, p)-metilhipúricos - Meio: urina - Momento da amostragem: Fim do turno
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	4,4'Metilendifenil diizocianat
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Regulatory reference	Hotărârea nr. 584/2018
<b>Romania - Biological limit values</b>	
Local name	Xilen
Romania - BLV	3 g/l Indicador biologic: Acid metilhipuric - Material biologic: urină - Momentul recoltării: sfârșit schimb
Regulatory reference	Hotărârea nr. 584/2018
<b>Serbia - Occupational Exposure Limits</b>	
Local name	ксилен, мешани изомери, чист
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm

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<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Izokyanáty: 4,4'-Metyléndifenyilizokyanát (MDI)
NPHV (priemerná) (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	0.002 ppm



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OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Upozornenie (SK)	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.



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<b>Slovakia - Biological limit values</b>	
Local name	Xylén (všetky izoméry)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	difenilmetan-4,4'-diizocianat (4,4'-metilendifenil diizocianat)
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> 0.005 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
OEL STEL (ppm)	0.005 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti)
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Slovenia - Biological limit values</b>	
Local name	ksilen (vse izomere)
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	Diisocianato de 4,4'-difenilmetano (MDI)
VLA-ED (mg/m <sup>3</sup> )	0.052 mg/m <sup>3</sup>
VLA-ED (ppm)	0.005 ppm
VLA-EC (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
VLA-EC (ppm)	100 ppm
<b>Spain - Biological limit values</b>	
Local name	Xilenos, mezcla isómeros
Spain - BLV	1 g/g creatinine Parámetro: Ácidos metilhipúricos - Medio: Orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	4,4'-Metyldifenyldiisocyanat (MDI)
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.03 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	0.002 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>



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kortidsvärde (KTV) (ppm)	0.005 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Xylene
WEL TWA (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup> o-,m-,p- or mixed isomers
WEL TWA (ppm)	50 ppm o-,m-,p- or mixed isomers
WEL STEL (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup> o-,m-,p- or mixed isomers
WEL STEL (ppm)	100 ppm o-,m-,p- or mixed isomers
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>United Kingdom - Biological limit values</b>	
Local name	Xylene, o-, m-, p- or mixed isomers
United Kingdom (BEI)	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Metýlenbis(fenýlísósýanat) (dífenýlmetan-4,4'-díísósýanat, MDI)
OEL (8 hours ref) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	0.005 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Þakgildið er miðað við fimm mínútna tímabil



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OEL (15 min ref) (ppm)	0.01 ppm Þakgildið er miðað við fimm mínútna tímabil
Notes (IS)	O (efnið er ofnæmisvaldandi)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Difenylnmetan-4,4'-diisocyanat (MDI; Metylen-bis-fenyldiisocyanat)
Grenseverdier (AN) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	0.005 ppm
Grenseverdier (Kortidsverdi) (ppm)	0.01 ppm
Merknader (NO)	A (Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt)
Regulatory reference	FOR-2018-08-21-1255
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Xylène (tous les isomères) / Xylol (alle Isomere)
MAK (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
MAK (ppm)	100 ppm
KZGW (mg/m <sup>3</sup> )	870 mg/m <sup>3</sup>
KZGW (ppm)	200 ppm
Critical toxicity	VRS, SNC, Yeux, Vertige / OAW, ZNS, Auge, Schwindel
Notation	R, B / H, B

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Remark  
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Regulatory reference	www.suva.ch, 01.07.2019
<b>Turkey - Occupational Exposure Limits</b>	
Local name	Ksilen
OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (karışım izomerleri, saf)
OEL TWA (ppm)	50 ppm (karışım izomerleri, saf)
OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (karışım izomerleri, saf)
OEL STEL (ppm)	100 ppm (karışım izomerleri, saf)
Comments	Deri
Regulatory reference	12 Ağustos 2013 Tarihli ve 28733 Sayılı Resmî Gazete
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Methylene bisphenyl isocyanate (MDI)
ACGIH TWA (ppm)	0.005 ppm
ACGIH STEL (ppm)	150 ppm
Remark (ACGIH)	TLV® Basis: Resp sens
Regulatory reference	ACGIH 2019





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<b>Titanium Dioxide (13463-67-7)</b>	
<b>Occupational Exposure Limits</b>	
Local name	Titanium dioxide
WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> total inhalable
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Chemically resistant protective gloves. EN 374.

#### Eye protection:

Chemical goggles or safety glasses. EN 166.

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment .EN 14387

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



#### Environmental exposure controls:

Avoid release to the environment.



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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Paste.
Colour	: Various.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Vapour pressure	: No data available

Flammability (solid, gas) :

Not applicable



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Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1,08 ± 0,03 g/ml

Solubility : No data available

Log Pow : No data available

Viscosity, kinematic :

No data available

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Viscosity, dynamic : No data available

No data available

Oxidising properties :

No data available

:

:

Explosive limits : No data available

### 9.2. Other information

VOC content : < 30 g/l



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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

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

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#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline
	≤ 25 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified **Titanium Dioxide (13463-67-7)**

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified



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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

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

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available



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### 12.6. Other adverse effects

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No additional information available



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

### SECTION 14: Transport information

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

#### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable  
UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

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

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

##### ADN

Transport hazard class(es) (ADN) : Not applicable





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### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

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Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

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

Reference code	Applicable on	Entry title or description
56.	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	Methylenediphenyl diisocyanate (MDI)
56(a)	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate

Contains no substance on the REACH candidate list

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Contains no REACH Annex XIV substances

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##### 15.1.2. National regulations

Germany

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VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)  
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Borstvoeding  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Vruchtbaarheid  
NIET-limitatieve lijst van voor de voortplanting : xylene is listed  
giftige stoffen – Ontwikkeling

### Denmark

Recommendations Danish Regulation : Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material  
The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



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### SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

#### SDS EU

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