

SAFETY DATA SHEET

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

PU Wood Adhesive Gel 5 Min Cartridge

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

1.1. Product identifier

Product name **Registration number REACH** Product type REACH

- : PU Wood Adhesive Gel 5 Min Cartridge : Not applicable (mixture)
- : 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. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Class	Category	Hazard statements
Carc.	categ <mark>ory 2</mark>	H351: Suspected of causing cancer.
Acute Tox.	categ <mark>ory 4</mark>	H332: Harmful if inhaled.
STOT RE	categ <mark>ory 2</mark>	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Eye Irrit.	categ <mark>ory 2</mark>	H319: Causes serious eye irritation.
STOT SE	categ <mark>ory 3</mark>	H335: May cause respiratory irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Resp. Sens.	categ <mark>ory 1</mark>	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

Reason for revision: 15 Revision number: 0401



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

nal word	Danger

H-statements			
H351	Suspected of causing cancer.		
H332	Harmful if inhaled.		
H373	May cause damage to organs throu	igh prolonged or repeated exposure if inhaled.	
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
H315	Causes skin irritation.		
Created by: Brandweerinformatiece	entrum voor gevaarlijke stoffen vzw (Blo	G) Publication date: 2003-01-30	ęn
Technische Schoolstraat 43 A, B-24	40 Geel	Date of revision: 2016-02-19	480
http://www.big.be			60-
© BIG vzw			15960

Product number: 38899

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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.
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	on and a second s
	- 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

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

standard EN 14387) is used.

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
4,4'-methylenediphenyl diisocyanate 01-2119457014-47	101-68-8 202-966-0		Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)(8)(10)	Constituent
o-(p-isocyanatobenzyl)phenyl is <mark>ocyanate</mark> 01-2119480143-45	5873-54-1 227-534-9		Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)(8)(10)	Constituent
aromatic polyisocyanate prepol <mark>ymer</mark>	99784-49-3	C>50 %		(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

SECTION 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 or 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:

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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 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 indestion: 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. SECTION 5: Firefighting 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. SECTION 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.

SECTION 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

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Product number: 38899

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.

- C	ontrol parameters								
	1 Occupational exposure								
	a) Occupational exposure		s						
	If limit values are applicat			belov	v.				
	The Netherlands			her .					0.0040
	Difenylmethaan-4,4'-diisc	ocyanaat			ne-weighted averag posure limit value)	e exposur	e limit 8 h (Private occu	pational	0.0048 ppm
					,	e exposur	e limit 8 h (Private occu	pational	0.05 mg/m ³
					osure limit value)	,			
				Sho	ort time value (Priva	ate occupa	tional exposure limit va	lue)	0.02 ppm
l				Sho	ort time value (Priva	ate occupa	tional exposure limit va	lue)	0.21 mg/m ³
I	Belgium								
	4,4'-Diisocyanate de dip	hénylmétha	ane (MDI)	Tim	ne-weighted averag	e exposur	e limit 8 h		0.005 ppm
				Tim	ne-weighted averag	e exposur	e limit 8 h		0.052 mg/m ³
1	USA (TLV-ACGIH)								
	Methylene bisphenyl isoc	yanate (MD	DI)	Tim	ne-weighted averag	e exposur	e limit 8 h (TLV - Adopte	ed Value)	0.005 ppm
1									
	Germany 4,4'-Methylendiphenyldii	converset		Tire	o woighted over		e limit 8 h (TRGS 900)		0.05 mg/m³
	o-(p-lsocyanatobenzyl)ph) at		0 0		e limit 8 h (TRGS 900)		0.05 mg/m ³
I		errynsocyar	iat		ie-weighted averag	e exposui			0.05 mg/m
	France			_	_				
	4,4'-Diisocyanate de diph	énylméthar	ne				e limit 8 h (VL: Valeur n	on	0.01 ppm
				_	lementaire indicati		e limit 8 h (VL: Valeur n		0.1 mg/m ³
					lementaire indicati			511	0.1 mg/m
						,	réglementaire indicativ	/e)	0.02 ppm
				Sho	ort time value (VL: \	/aleur non	réglementaire indicativ	/e)	0.2 mg/m ³
1	UK								
	Isocyanates, all (as -NCO)	Except me	thyl isocyanate	Tim	ne-weighted averag	e exposur	e limit 8 h (Workplace e	xposure limit	0.02 mg/m ³
				(EH	140/2005))				
l				Sho	ort time value (Wor	kplace exp	oosure limit (EH40/2005))	0.07 mg/m ³
	b) National biological limi								
	If limit values are applicat	ole and avai	lable these will be listed	belov	v.				
	2 Sampling methods Product name				Test	N	umber		
	4,4-Methylene Bispheny <mark>l</mark>	Isocvanate	(MDI) (Isocyanates)		NIOSH		521		
	4,4'-Methylenebis(pheny				NIOSH	_	525		
	Isocyanates				NIOSH		521		
	Isocyanates				NIOSH		522		
	Methylene Bisphenyl Isoc				OSHA	1			
	Methylene Bisphenyl Isoc		(וכ		OSHA	4			
	Methylene Bisphenyl Isoc 3 Applicable limit values		the substance or mixt	Ire ac	OSHA intended	3	b]	
0.1.	If limit values are applicat	ole and avai	lable these will be listed	belov	V.				
	4 DNEL/PNEC values								
<u> </u>	DNEL/DMEL - Workers								
2	4,4'-methylenediphenyl d								
	Effect level (DNEL/DME	EL)	Туре				alue	Remark	
	DNEL		Long-term local effects				05 mg/m ³		
			Acute local effects inha	alation		0.	1 mg/m³		
for	revision: 15						ublication date: 2003-01		
						D	ate of revision: 2016-02	-19	

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.05 mg/m ³	
	Acute systemic effects inhalation	0.1 mg/m³	
	Long-term local effects inhalation	0.05 mg/m ³	
	Acute local effects inhalation	0.1 mg/m³	
	Acute systemic effects dermal	50 mg/kg bw/day	
	Acute local effects dermal	28.7 mg/cm ³	
<u>VEL/DMEL - General population</u> 4'-methylenediphenyl diisocya			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	0.025 mg/m ³	
	Acute systemic effects inhalation	0.05 mg/m ³	
(p-isocyanatobenzyl)phenyl iso			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.025 mg/m ³	
	Acute systemic effects inhalation	0.05 mg/m ³	
	Long-term local effects inhalation	0.025 mg/m ³	
	Acute local effects inhalation	0.05 mg/m ³	
	Acute systemic effects dermal	25 mg/kg bw/day	
	Acute local effects dermal	17.2 mg/cm ³	
	Acute systemic effects oral	20 mg/kg bw/day	
IEC			÷
4'-methylenediphenyl diisocya	nate		
Compartments	Value	Remark	
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		
(p-isocyanatobenzyl)p <mark>henyl isc</mark>	ocyanate		
Compartments	Value	Remark	
Fresh water	1 mg/l		
Marine water	0.1 mg/l		
Aqua (intermittent rele <mark>ases)</mark>	10 mg/l		
STP	1 mg/l		
Soil	1 mg/kg soil dw		

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.

a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

b) Hand protection:

Gloves.

- materials (good resistance)
 Polyethylene.
- c) Eye protection:
- Safety glasses.
- d) Skin protection:
- Protective clothing.
- 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 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

Reason for revision: 15

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	
Velting point	No data available	
Boiling point	No data available	
lash point	> 165 °C	
vaporation rate	No data available	
Relative vapour density	>2	
/apour pressure	No data available	
Solubility	water ; insoluble	
Relative density	1.1	
Decomposition temperature	No data available	
Auto-ignition temperatu <mark>re</mark>	No data available	
Explosive properties	No chemical group associated with explosive properties	
Oxidising properties	No chemical group associated with oxidising properties	
рН	No data available	

1146 kg/m³

9.2. Other information

Absolute density

SECTION 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.

SECTION 11: Toxicological information

11.1.1 Information on toxicological effects 11.1.1 Test results

Acute toxicity

PU Wood Adhesive Gel 5 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Para	meter	Method	Value	Exposure time		Value determination	Remark
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	us	utaneo rption	EPA OPPTS 870.7600	0.9 %	8 h	Rat (male)	Experimental value	
Inhalation (aerosol)	LC50		Equivalent to OECD 403	0.49 mg/l air	4 h	Rat (male/female)	Read-across	
				category 4			Annex VI	

Reason for revision: 15

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0	(p-isocyanatobenzyl)		ato					
0			Method	Value	Exposure time	Spacios	Value	Remark
	Route of exposure	Parameter	ivietnoa	value	Exposure time	Species		kemark
							determination	
	Oral		Other	<mark>> 2000 m</mark> g/kg bw		Rat (male/female)	Read-across	
	Dermal			<mark>> 9400 m</mark> g/kg bw	24 h	Rabbit	Read-across	
			402			(male/female)		
	Inhalation (aerosol		OECD 403	<mark>387 mg/</mark> m³ air		Rat (male)	Experimental value	
	Inhalation (aerosol) LC50	OECD 403	<mark>645 mg/</mark> m³ air	4 h	Rat (female)	Experimental value	
<u>a</u>	omatic polyisocyana	te prep <mark>olymer</mark>						
	Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
							determination	
	Inhalation			category 4			Literature study	
C	assification is based of	on the r <mark>elevant i</mark>	ingredients					
Cor	nclusion							
Н	armful if inhaled.							
N	ot classified as acute	toxic if swallowe	ed					
N	ot classified as acute	toxic in contact	with skin					
Corros	on/irritation							
	ood Adhesive Gel 5							
N	o (test)data on the m	ixture available						
4	4'-methylenedipheny							
	Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
							determination	
	Eye	Slightly <mark>irritating</mark>	g			Rabbit	Experimental value	
		Irritating				Human	Weight of evidence	2
	· · ·	Irritatin <mark>g</mark>	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
	Skin	Irritating				Human	Weight of evidence	2
		Irritating				Human	Weight of evidence	
0	(p-isocyanatobenzyl)		ate				1	
<u>u</u>	Route of exposure		Method	Exposure time	Time point	Species	Value	Remark
	Noule of exposure	Kesun	Method	Lyposure time	nine point	species	determination	Kennark
	Evo	Irritatin <mark>g</mark>				Human	Weight of evidence	
	Eye	0	OECD 405	24 h	24; 48; 72 hours	Rabbit	Read-across	-
		Not irritating	OECD 403	4 h	24; 48; 72 hours	Rabbit	Read-across	
		Irritating	UECD 404	4 11	24; 48; 72 nours			
	Skin	Irritating				Human	Weight of evidence	
	Indeal at an							
	4	Irritating			_	Human	Weight of evidence	:
<u>a</u>	omatic polyisocyana	te prep <mark>olymer</mark>						
a	4	te prep <mark>olymer</mark>	Method	Exposure time	Time point	Human Species	Value	Remark
ai	omatic polyisocyana Route of exposure	te prepo <mark>lymer</mark> Result		Exposure time	Time point		Value determination	
<u>a</u>	omatic polyisocyana	te prep <mark>olymer</mark>		Exposure time	Time point		Value	
<u>ai</u>	omatic polyisocyana Route of exposure Eye	te prep <mark>olymer</mark> Result Irritatin <mark>g; categ</mark> 2	ory	Exposure time	Time point		Value determination Literature study	
<u>ai</u>	omatic polyisocyana Route of exposure Eye Skin	te prepolymer Result Irritating; catego 2 Irritating; catego	ory	Exposure time	Time point		Value determination	
aı	omatic polyisocyana Route of exposure Eye Skin	te prepolymer Result Irritatin <mark>g; categ</mark> 2 Irritating; categ 2	ory ory	Exposure time	Time point		Value determination Literature study Literature study	
<u>a</u> ı	omatic polyisocyana Route of exposure Eye Skin Inhalation	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT	ory ory	Exposure time	Time point		Value determination Literature study	
_	omatic polyisocyana Route of exposure Eye Skin Inhalation	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT cat.3	ory SE	Exposure time	Time point		Value determination Literature study Literature study	
C	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based of	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT cat.3	ory SE	Exposure time	Time point		Value determination Literature study Literature study	
Cl <u>Cor</u>	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based o Iclusion	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT cat.3	ory SE	Exposure time	Time point		Value determination Literature study Literature study	
Ci <u>Cor</u> Ci	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on Inclusion auses skin irritation.	te prepolymer Result Irritating; catego 2 Irritating; catego 2 Irritating; STOT cat.3 Son the relevant i	ory SE	Exposure time	Time point		Value determination Literature study Literature study	
Ci <u>Cor</u> Ci Ci	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on Inclusion auses skin irritation. auses serious eye irrit	te prepolymer Result Irritating; categr 2 Irritating; categr 2 Irritating; STOT cat.3 on the relevant i tation.	ory SE	Exposure time	Time point		Value determination Literature study Literature study	
Cl <u>Cor</u> Ci M	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on Inclusion auses skin irritation. auses serious eye irritation auses serious eye irritation.	te prepolymer Result Irritating; categr 2 Irritating; categr 2 Irritating; STOT cat.3 on the relevant i tation.	ory ory SE ingredients				Value determination Literature study Literature study	
Cl <u>Cor</u> Ci M	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on Inclusion auses skin irritation. auses serious eye irrit	te prepolymer Result Irritating; categr 2 Irritating; categr 2 Irritating; STOT cat.3 on the relevant i tation.	ory ory SE ingredients				Value determination Literature study Literature study	
Cl <u>Cor</u> Ci Ci Si	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on the second s	te prepolymer Result Irritating; categr 2 Irritating; categr 2 Irritating; STOT cat.3 on the relevant i tation. irritation. poxicity, single ex	ory ory SE ingredients				Value determination Literature study Literature study	
Cl <u>Cor</u> Ci Ci Si	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on Inclusion auses skin irritation. auses serious eye irritation auses serious eye irritation.	te prepolymer Result Irritating; categr 2 Irritating; categr 2 Irritating; STOT cat.3 on the relevant i tation. irritation. poxicity, single ex	ory ory SE ingredients				Value determination Literature study Literature study	
Cl <u>Cor</u> Ca M Sp Respira	omatic polyisocyana Route of exposure Eye Skin Inhalation assification is based on the second s	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT cat.3 on the relevant i tritation. irritation. oxicity, single exp ation	ory ory SE ingredients				Value determination Literature study Literature study	
Cl <u>Cor</u> Ci Ci Si Respira	Route of exposure Eye Skin Inhalation assification is based of auses skin irritation. auses serious eye irrit lay cause respiratory becific target organ to atory or skin sensitisa	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT cat.3 on the relevant i tation. irritation. irritation. oxicity, single ex ation Min Cartridge	ory ory SE ingredients posure: classified as i				Value determination Literature study Literature study	
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Cl <u>Cor</u> Ca M Sp Respira <u>PU W</u> N	Route of exposure Route of exposure Eye Skin Inhalation assification is based on auses skin irritation. auses serious eye irrit auses serious eye irrit ay cause respiratory pecific target organ to atory or skin sensitisa (ood Adhesive Gel 5 f o (test)data on the m 4'-methylenediphem	te prepolymer Result Irritating; catege 2 Irritating; catege 2 Irritating; STOT cat.3 on the relevant i tation. irritation. oxicity, single exit ation <u>Min Cartridge</u> ixture available <u>vI diisocyanate</u>	ory ory SE ingredients posure: classified as i	rritant to respirator	y organs	Species	Value determination Literature study Literature study Literature study	Remark
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activation, negative without metabolic activation Method Test substrate Effect Value determination Negative with metabolic activation, negative without metabolic activation Method Test substrate Effect Value determination Result Method Test substrate Effect Value determination Result Method Test substrate Effect Value determination genicity (in vivo) No effect Experimental value Experimental value Mod Adhesive Gel 5 Min Cartridge No (test)data on the mixture available Value determin Experimental value L4'-methylenediphenyl diisocyanate Method Exposure time Test substrate Organ Value determin Negative OECD 474 3 weeks (1h/day, 1 (day/week) Rat (male) Experimental value n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- genicity (in vitro) Nood Adhesive Gel 5 No (test)data on the p	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available	in contact with	SKIN						
metabolic activation Image: constraint of the second s	Not classified as sub- Not classified as sub- genicity (in vitro) <u>Nood Adhesive Gel 5</u> No (test)data on the i I,4'-methylenedipher Result	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> Met	in contact with if swallowed thod							
P-(p-isocyanatobenzyl)phenyl isocyanate Method Test substrate Effect Value determination Negative with metabolic activation, negative without metabolic activation OECD 471 Bacteria (S.typhimurium) No effect Experimental value genicity (in vivo) Nood Adhesive Gel 5 Min Cartridge No (test)data on the mixture available Value determination L4-methylenediphenyl diisocyanate Method Exposure time Test substrate Organ Value determination Negative OECD 474 3 weeks (1h/day, 1 day/week) Rat (male) Experimental value n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- genicity (in vitro) <u>Nood Adhesive Gel 5</u> No (test)data on the i I,4'-methylenedipher <u>Result</u> Negative with me	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> Met etabolic Equ	in contact with if swallowed thod							
Negative with metabolic activation OECD 471 Bacteria (S.typhimurium) No effect Experimental value genicity (in vivo)	Not classified as sub- Not classified as sub- genicity (in vitro) <u>Nood Adhesive Gel 5</u> No (test)data on the in I,4'-methylenedipher Result Negative with me activation, negative	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> Met etabolic Equ ve without	in contact with if swallowed thod							
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metabolic activation	Not classified as sub- Not classified as sub- genicity (in vitro) No (test)data on the in I,4'-methylenedipher Result Negative with me activation, negativ metabolic activatio-(p-isocyanatobenzy Result	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> etabolic ve without ion []phenyl isocyana []phenyl isocyana	in contact with if swallowed thod uivalent to OEC ate thod			Bacteria (S.t Test substra	yphimurium)	No effect	Experi Value	mental value determination
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Wood Adhesive Gel 5 Min Cartridge No (test)data on the mixture available 1,4'-methylenediphenyl diisocyanate Result Method Exposure time Test substrate Organ Value determin Negative OECD 474 3 weeks (1h/day, 1 day/week) Rat (male) Experimental va n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Qenicity (in vitro) No (test)data on the in L,4'-methylenedipher Result Negative with me activation, negative metabolic activatio- (p-isocyanatobenzy) Result Negative with me activation, negative Negative with me activation, negative	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> etabolic ve without ion (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana	in contact with if swallowed thod uivalent to OEC ate thod			Bacteria (S.t Test substra	yphimurium)	No effect	Experi Value	mental value determination
No (test)data on the mixture available 1,4'-methylenediphenyl diisocyanate Negative OECD 474 3 weeks (1h/day, 1 day/week) Rat (male) Experimental va day/week) Publication date: 2003-01-30 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Not classified as sub- genicity (in vitro) No (dest)data on the in 1,4'-methylenedipher Result Negative with me activation, negative metabolic activation Negative with me activation, negative metabolic activation Negative with me activation, negative metabolic activation	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> etabolic ve without ion (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana	in contact with if swallowed thod uivalent to OEC ate thod			Bacteria (S.t Test substra	yphimurium)	No effect	Experi Value	mental value determination
Agt-methylenediphenyl diisocyanate Method Exposure time Test substrate Organ Value determine Negative OECD 474 3 weeks (1h/day, 1 day/week) Rat (male) Experimental va n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Not classified as sub- genicity (in vitro) No (dest)data on the in 1,4'-methylenedipher Result Negative with me activation, negative metabolic activation Negative with me activation, negative metabolic activation Negative with me activation, negative metabolic activation	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> etabolic ve without ion (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana (I)phenyl isocyana	in contact with if swallowed thod uivalent to OEC ate thod			Bacteria (S.t Test substra	yphimurium)	No effect	Experi Value	mental value determination
Result Method Exposure time Test substrate Organ Value determin Negative OECD 474 3 weeks (1h/day, 1 day/week) Rat (male) Experimental va n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Qenicity (in vitro) No (test)data on the in L,4'-methylenediphen Result Negative with me activation, negative metabolic activation -(p-isocyanatobenzy Result Negative with me activation, negative metabolic activation metabolic activation metabolic activation metabolic activation genicity (in vivo)	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> tabolic Equ ve without ion <u>Met</u> tabolic OEC ve without ion <u>Met</u>	in contact with if swallowed thod iivalent to OEC ate thod CD 471			Bacteria (S.t Test substra	yphimurium)	No effect	Experi Value	mental value determination
Negative OECD 474 3 weeks (1h/day, 1 day/week) Rat (male) Experimental value n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Not classified as sub- Qenicity (in vitro) No (dest)data on the in L,4'-methylenediphen Result Negative with me activation, negative metabolic activation (p-isocyanatobenzy) Result Negative with me activation, negative metabolic activation metabolic activation metabolic activation (pericity (in vivo) No (dest)data on the in	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cec ve without ion (2) <u>Min Cartridge</u> mixture available	in contact with if swallowed thod iivalent to OEC ate thod CD 471			Bacteria (S.t Test substra	yphimurium)	No effect	Experi Value	mental value determination
n for revision: 15 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Qenicity (in vitro) No (dest)data on the in L,4'-methylenediphen Result Negative with me activation, negati metabolic activati o-(p-isocyanatobenzy Result Negative with me activation, negati metabolic activati genicity (in vivo) Nood Adhesive Gel 5 No (test)data on the in L,4'-methylenediphen	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cec ve without ion (2) <u>Min Cartridge</u> mixture available	in contact with if swallowed ithod iivalent to OEC ate thod CD 471			Bacteria (S.t Test substra Bacteria (S.t	yphimurium) ite yphimurium)	No effect Effect No effect	Experi Value Experi	mental value determination mental value
n for revision: 15 Publication date: 2003-01-30 Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Not classified as sub- Penicity (in vitro) No (dest)data on the in L,4'-methylenediphen Result Negative with me activation, negative metabolic activation (negative with me activation, negative metabolic activation Negative with me activation, negative metabolic activation (negative with me activation, negative (negative with me activative (negative with me activative (negative with me activative (negative w	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cort ve without ion (2) <u>Met</u> stabolic Cort <u>Met</u> <u>to Cartridge</u> mixture available	in contact with if swallowed it hod iivalent to OEC ate thod CD 471		Expos	Bacteria (S.t Test substra Bacteria (S.t	yphimurium) ite yphimurium) Test substr	No effect Effect No effect	Experi Value Experi	mental value determination mental value Value determin
Date of revision: 2016-02-19	Not classified as sub- Not classified as sub- Not classified as sub- Penicity (in vitro) No (dest)data on the in L,4'-methylenediphen Result Negative with me activation, negative metabolic activation (negative with me activation, negative metabolic activation Negative with me activation, negative metabolic activation (negative with me activation, negative (negative with me activative (negative with me activative (negative with me activative (negative w	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cort ve without ion (2) <u>Met</u> stabolic Cort <u>Met</u> <u>to Cartridge</u> mixture available	in contact with if swallowed it hod iivalent to OEC ate thod CD 471		Expos 3 wee	Bacteria (S.t Test substra Bacteria (S.t sure time sks (1h/day,	yphimurium) ite yphimurium) Test substr	No effect Effect No effect	Experi Value Experi	mental value determination mental value Value determin
	Not classified as sub- Not classified as sub- Not classified as sub- Penicity (in vitro) No (test)data on the r No (test)data on the r No (test)data on the r No (test)data on the r Negative with me activation, negati metabolic activati Negative with me activation, negati metabolic activati Mood Adhesive Gel 5 No (test)data on the r No (test)data on the r Negative	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cort ve without ion (2) <u>Met</u> stabolic Cort <u>Met</u> <u>to Cartridge</u> mixture available	in contact with if swallowed it hod iivalent to OEC ate thod CD 471		Expos 3 wee	Bacteria (S.t Test substra Bacteria (S.t sure time sks (1h/day,	yphimurium) ite yphimurium) Test substr 1 Rat (male)	No effect Effect No effect ate Or	Experi Value Experi gan	mental value determination mental value Value determin
	Not classified as sub- Not classified as sub- Not classified as sub- Penicity (in vitro) No (test)data on the r No (test)data on the r No (test)data on the r No (test)data on the r Negative with me activation, negati metabolic activati Negative with me activation, negati metabolic activati Mood Adhesive Gel 5 No (test)data on the r No (test)data on the r Negative	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cort ve without ion (2) <u>Met</u> stabolic Cort <u>Met</u> <u>to Cartridge</u> mixture available	in contact with if swallowed it hod iivalent to OEC ate thod CD 471		Expos 3 wee	Bacteria (S.t Test substra Bacteria (S.t sure time sks (1h/day,	yphimurium) ite yphimurium) Test substr 1 Rat (male)	No effect Effect No effect ate Or Publication date: 2	gan 003-01-30	mental value determination mental value Value determination
	Not classified as sub- Not classified as sub- Not classified as sub- Penicity (in vitro) No (test)data on the r No (test)data on the r No (test)data on the r No (test)data on the r Negative with me activation, negati metabolic activati Negative with me activation, negati metabolic activati Mood Adhesive Gel 5 No (test)data on the r No (test)data on the r Negative	chronically toxic i chronically toxic i <u>5 Min Cartridge</u> mixture available <u>nyl diisocyanate</u> <u>Met</u> stabolic Equ ve without ion (1)phenyl isocyana (1)phenyl isocyana etabolic Cort ve without ion (2) <u>Met</u> stabolic Cort <u>Met</u> <u>to Cartridge</u> mixture available	in contact with if swallowed it hod iivalent to OEC ate thod CD 471		Expos 3 wee	Bacteria (S.t Test substra Bacteria (S.t sure time sks (1h/day,	yphimurium) ite yphimurium) Test substr 1 Rat (male)	No effect Effect No effect ate Or Publication date: 2	gan 003-01-30	mental value determination mental value Value determination

<u>0-</u>	-(p-isocyana	itobe	nzyl)pheny	l iso	ocyanate														
	Result					/lethod			sure tim			substrate			Organ				determination
	Negative				C	DECD 47	4		eks (1h/o week)	lay, 1	Rat ((male)					ŀ	Read-a	across
Carcino	ogenicity										1								
<u>PU W</u>	/ood Adhes	ive G																-	
	oute of xposure	Par	ameter	Me	thod	Val	ue	Exp	posure til	me SI	pecie	es	Effec	ct		Orga	n	Valu	e rmination
	halation					cate	egory 2			-									ature
4,	4'-methyle	nedip	henyl diisc																
	Route of exposure		Parameter		Method				Exposur		Ľ	ecies		Effect			Organ	c	/alue letermination
	Inhalation (aerosol) -(p-isocyana		NOAEC	lice	Other		0.7 mg/m³ :	air	104 wee 5 days/v	eks (17h/da veek)	у, ка	it (female)		effect	cinogen	IC			xperimental value
0-	Route of		Parameter		Method		Value		Exposur	e time	Sp	ecies	E	Effect		0	Organ	١	/alue
	e xposur e Inhalatio		NOAEC		Equivalent	to	1 mg/m³ aiı	r	2 vear(s) (6h/day, 5	Ra	t		No effe	ct	R	espiratory	-	determination Read-across
	(aerosol)				OECD 453		<u>.</u>		days/we	ek)	(m	nale/female)			tr	ract		
	Inhalatioı (aerosol)	۱	LOAEC		Equivalent OECD 453	to	6 mg/m³ aiı	r	2 year(s days/we) (6h/day, 5 ek)		it iale/female		Tumor	formati		espiratory ract	F	Read-across
Reproc	luctive toxi	city																	
PU W	/ood Adhes	ive G	el 5 Min Ca	rtri	dge									<u>_</u>					
	o (test)data																		
<u>4</u> ,	4'-methyleı	nedip			nate ameter	Meth	od	/alue		Exposure	time	Species	-	Effe	ct		Organ	١	/alue
						0.5.05			2.	· · · · · · · · · · · · · · · · · · ·		· ·					J	-	letermination
	Developn	nenta	al toxicity	NO.	AEL	OECE) 414 :	3 mg/r	n ³ air	10 days (6h/day)		Rat (fema	le)	NO E	effect				Experimental value
				LOA	AEL	OECD	9 414 9	9 mg/r	m³ air	10 days (6h/day)		Rat (fema	le)	Emb	ryotoxi	city			Experimental value
	Maternal	toxic	city	NO	AEL	OECD		1 mg/ŀ ow/da		10 day(s)		Rat (fema	le)	No e	effect			F	Read-across
	Effects or		,					,	,									0	Data waiving
<u>0-</u>	-(p-isocyana				ameter	Meth	od	/alue		Exposure	time	Species		Effe	ct		Organ		/alue letermination
	Developn	nenta	al toxicity	NO.	AEL	OECD	0 414 4	1 mg/r	n³ air	10 days (6h/day)		Rat			dverse emic eff	ects			Read-across
	Maternal	toxic	city	NO	AEL	OECD	0 414 4	1 mg/r	n³ air	10 days (6h/day)		Rat (fema	le)	No a	dverse emic eff			F	Read-across
	assification		sed on the	rele	evant ingre	dients				<u>[[]]]</u>									
	nclusion CN uspected of		ing concor																
	ot classified			or g	enotoxic to	oxicity													
	ot classified		-				city												
Toxicit	y other effe	cts																	
	<u>/ood Adhes</u> o (test)data																		
	4'-methylei																		
	Paramete	er	Metho	d	V	alue	(Organ		Effect		Exp	posur	e time	s Sp	becie	s		lue termination
	LD50				1	00 mg/	kg bw				_		_		Μ	ouse	e (male)	Ex	perimental value
Chroni	c effects fro	om sh	nort and lo	ng-t	erm expos	ure													
	lood Adhes												_						
	N CONTINU espiratory tr					ONTAC	I: Itching. Sł	an ras	h/inflami	mation. Fee	ling	of weaknes	is. Coi	ughing	. Possib	le inf	flammatio	n of ti	1e
ECT	ION 12	2: E	cologi	са	l infor	mat	ion												
12	.1. Toxici	ty																	
	<u>/ood Adhes</u> (test)data c																		
	. ,												iort'	n els i	. 2002 /	01 01	<u> </u>		
кеазоп	n for revisio	1: 15													: 2003-0 : 2016-0				
Revisio	n number:	0401										Prod	luct n	umber	: 38899)			9/15

	Parameter	Method	Value	Duration	Species	Test desig	n Fresh/salt	Value determination
						5	water	
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/	l 96 h	Danio rerio	Static syste	em Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	129.7 mg/l	24 h	Daphnia magna	Static syste	em Fresh water	Read-across; Locomotor effect
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1640 mg/	l 72 h	Desmodesmus subspicatus	Static syste	em Fresh water	Read-across; Grow rate
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥ 10 mg/l	21 day(s)	Daphnia magna	Semi-statio system	c Fresh water	Read-across; Reproduction
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static syste	em Fresh water	Read-across; Nominal concentration
(p-isocyanatobenzyl)phenyl isoc	vanate							
	Parameter	Method	Value	Duration	Species	Test desig	n Fresh/salt water	Value determinati
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/	l 96 h	Brachydanio rerio	Static syste	em Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	> 1000 mg/	l 24 h	Daphnia magna	Static syste	em Fresh water	Read-across; Nominal concentration
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1640 mg/	l 72 h	Scenedesmus subspicatus	Static syste	em Fresh water	Read-across; GLP
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥ 10 mg/l	21 day(s)	Daphnia magna	Semi-statio system	c Fresh water	Read-across; Nominal concentration
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static syste	em Fresh water	Read-across; GLP
	Parameter	Method	N	/alue	Duration	Spe	ecies	Value determinati
Toxicity soil macro-organisms	NOEC	OECD 20	7	2 1000 mg/kg s	oil dw 14 day(s)	Eise	enia fetida	Read-across
Toxicity terrestrial plants	NOEC	Equivale 208	nt to OECD 2	≥ 1000 mg/kg s	oil dw 14 day(s)	Ave	ena sativa	Read-across
	NOEC	Equivale 208	nt to OECD ≥	2 1000 mg/kg so	oil dw 14 day(s)	Lac	tuca 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
OECD 302C: Inherent Biodegradability:	0 %	28 day(s)	Read-across
Modified MITI Test (II)			
Phototransformation air (DT50 air)			
Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	0.92 day(s)		QSAR
Half-life water (t1/2 water)			
Method	Value	Primary degradation/mineralisation	Value determination
	20 h		Read-across
o-(p-isocyanatobenzyl)phenyl isocyanate Biodegradation water			
Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability: Modified MITI Test (II)	0 %	28 day(s)	Read-across
Phototransformation air (DT50 air)			
Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	0.89 day(s); GLP	1500000 /cm ³	Experimental value
Half-life water (t1/2 water)			
Method	Value	Primary degradation/mineralisation	Value determination
	20 h; GLP		Read-across
onclusion			
on for revision: 15		Publication date:	2003-01-30
		Date of revision: 2	2016-02-19

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

BCF fishes Parameter Method Value Duration Species Value determination BCF OECD 305 92 - 200 4 week(s) Cyprinus carpio Experimental value Log Kow Method Remark Value Temperature Value determination OECD 117 6.5.22 6.5timated value 6.5.22 6.5timated value OECD 117 4.51 22 °C 6.5timated value 6.5timated value C/p-isocyanatobenzyl)phenyl isocyanate BCF fishes Value determination 8.5timated value 6.5timated value 6.	lethod	Remark	[Value	Temperature	Value determination
BCF DECD 305 92 - 200 4 week(s) Cyprinus carpio Experimental value Log Kow Method Remark Value Temperature Value determination 0ECD 117 4.51 22 °C Estimated value (c-isocyanatobenzyl)phenyl isocyanate Estimated value Experimental value BCF Socyanatobenzyl)phenyl isocyanate Estimated value BCF DECD 305 92 - 200 28 day(s) Cyprinus carpio Read-across Log Kow Image: Socyanate prepolymer Species Value determination OECD 117 4.51 22 °C Conclusion by analogy Iog Kow Image: Socyanate prepolymer Socyanate prepolymer Log Kow Image: Socyanate prepolymer Image: Socyanate prepolymer <th></th> <th>Not app</th> <th>licable (mixture)</th> <th></th> <th></th> <th></th>		Not app	licable (mixture)			
BCF fishes Value Duration Species Value determination BCF OECD 305 92 - 200 4 week(s) Cyprinus carpio Experimental value Log Kow Temperature Value determination Estimated value DECD 117 6.5.22 Estimated value OECD 117 4.51 22 °C Experimental value Def(p-isocyanatobenzyl)phenyl isocyanate BCF fishes Value determination Parameter Method Value Duration Species Value determination BCF for OECD 305 92 - 200 28 day(s) Cyprinus carpio Read-across Log Kow 1 4.51 22 °C Conclusion by analogy Introduct polyisocyanate prepolymer 4.51 22 °C Conclusion by analogy Introduct polyisocyanate prepolymer 4.51 22 °C Conclusion by analogy Introduct polyisocyanate prepolymer Iog Kow Iog Kow Iog Kow Introduct polyisocyanate prepolymer(s) Value Temperature Value determination Inclusion No data available Iog Kow Iog Kow Iog Kow Iog Kow	L 4'-methylenedin	nenyl diisocyanate				
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Parameter Method Value Duration Species Value determination BCF OECD 305 92 - 200 28 day(s) Cyprinus carpio Read-across Log Kow Method Remark Value Temperature Value determination OECD 117 4.51 22 °C Conclusion by analogy aromatic polyisocyanate prepolymer Log Kow Image: Conclusion by analogy Method Remark Value Temperature Value determination Log Kow Method Remark Value Conclusion by analogy Log Kow Image: Conclusion by analogy Image: Conclusion by analogy Image: Conclusion by analogy Log Kow Image: Conclusion by analogy Image: Conclusion by analogy Image: Conclusion by analogy Conclusion No data available Image: Conclusion by analogy Image: Conclusion by analogy Conclusion No data available Image: Conclusion by analogy Image: Conclusion by analogy Conclusion Remark Value Temperature Value determination Conclusion Remark Value Image: Conclusion by analogy Image: Conclusion	p-(p-isocyanatober	nzyl)phenyl <mark>isocyana</mark>	<u>ite</u>			
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onclusion Contains bioaccumulative component(s) 2.4. Mobility in soil 4,4'-methylenediphenyl diisocyanate	Method	Ren	nark	Value	Temperature	Value determination
Contains bioaccumulative component(s) 2.4. Mobility in soil 4.4 ⁻ methylenediphenyl diisocyanate		No	data available			
2.4. Mobility in soil 4.4'-methylenediphenyl diisoc <mark>yanate</mark>	onclusion					
4,4'-methylenediphenyl diisocy <mark>anate</mark>	Contains bioaccum	ulative com <mark>ponent</mark>	s)			
1,4'-methylenediphenyl diisoc <mark>yanate</mark>	0.4 Mobility in	coil				
	-					
Volatility (Henry's Law constant H)						
Value Method Temperature Remark Value determination						

Value	Method	Temperature	Remark	Value determination	
8.95E-7 atm m ³ /mol		25 °C		Estimated value	1
					-

Conclusion

No (test)data on mobility of th<mark>e components available</mark>

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

PU Wood Adhesive Gel 5 Min Cartridge

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)

SECTION 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).

Reason for revision: 15

Publication date: 2003-01-30 Date of revision: 2016-02-19

Revision number: 0401

Product number: 38899

	5
TION 14: Transport information	
CTION 14: Transport information	
Road (ADR)	
14.1. UN number	
	Niek subject
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	
14.2. On proper simpling name	
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 hazardo <mark>us substance mark</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 na <mark>me</mark>	Not subject
14.2. UN proper shipping na <mark>me</mark> 14.3. Transport hazard class(<mark>es)</mark>	Not subject
14.3. Transport hazard class(es)	Not subject
14.3. Transport hazard class(<mark>es)</mark> Class	Not subject
14.3. Transport hazard class(<mark>es) Class 14.4. Packing group </mark>	Not subject
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group	Not subject
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels	Not subject
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards	Not subject
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant	
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark	Not subject
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user	
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14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user	
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities	
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions	
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 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	
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities	Publication date: 2003-01-30
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 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	
14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 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	Publication date: 2003-01-30

	Annex II of MARPOL 73/7	78		
Air (IC	AO-TI/IATA-DGR)			
	. UN number			
т	ransport			Not subject
14.2.	. UN proper shipping na	me		
14.3.	. Transport hazard class(es)		
C	Class			
14.4.	. Packing group			
Ρ	Packing group			
L	abels			
14.5.	. Environmental hazards			
E	invironmentally hazardo	us substance mark		no
14.6.	. Special precautions for	user		
S	pecial provisions			
	Passenger and cargo tran per packaging	nsport: limited quantities: maximum ne	t quantity	

SECTION 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.

	Berou	substances, mixtures and article		
		Designation of the substance, of the substance of the substances or of the mixture	group of	Conditions of restriction
aromatic polyisocyanate prepolymer		Liquid substances or mixtures which regarded as dangerous in accordance Directive 1999/45/EC or are fulfilling criteria for any of the following hazar or categories set out in Annex I to Re (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2 types A and B, 2.9, 2.10, 2.12, 2.13 ca and 2, 2.14 categories 1 and 2, 2.15 tr F; (b) hazard classes 3.1 to 3.6, 3.7 adve effects on sexual function and fertilit development, 3.8 effects other than effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	e with the rd classes gulation 2.7, 2.8 ategories 1 ypes A to erse y or on	 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 wit ornamental aspects, Articles not complying with paragraph 1 shall not be placed on the market. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
• 4,4'-methylenediphenyl diisocyanate • o-(p-isocyanatobenzyl)phenyl isocya		Methylenediphenyl diisocyanate (ME including the following specific isome Methylenediphenyl diisocyanate; 2,4 Methylenediphenyl diisocyanate; 2,2 Methylenediphenyl diisocyanate	ers: 4,4'- '-	 Shall not be placed on the market after 27 December 2010, as a constituent of mixtures concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging: (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC; (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures: — Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
son for revision: 15				Publication date: 2003-01-30
				Date of revision: 2016-02-19
ision number: 0401				Product number: 38899 13 / 15

act, with this product. Joint should not be used under conditions of poor ver n appropriate gas filter (i.e. type A1 according to sta rogation, paragraph 1(a) shall not apply to hot melt nents in compliance with Verwaltungsvorsch e Fraktion); 0.05 mg/m ³ ; gemessen als einate	andard EN 14387) is used. It adhesives.
	nrift wassergefährdend
	hrift wassergefährden
	hrift wassergefährden
e Fraktion); 0.05 mg/m³; gemessen als einate	
e Fraktion); 0.05 mg/m³; gemessen als einate	
e Fraktion); 0.05 mg/m ³ ; gemessen als einate	
e Fraktion); 0.05 mg/m³; gemessen als einate	
e Fraktion); 0.05 mg/m²; gemessen als einato	
	embare Fraktion (vgi.
ric 4,4'-methylenediphenyl diisocyanate	
ed.	
if inhaled.	
n Europe)	
Eye Irrit. 2; H319	CLP Annex VI (ATP
Skin Irrit. 2; H315 Resp. Sens. 1: H334	CLP Annex VI (ATP CLP Annex VI (ATP
Resp. Sens. 1; H334 STOT SE 3; H335	CLP Annex VI (ATP
	CLP Annex VI (ATP :
	CLP Annex VI (ATP
Skin Irrit. 2; H315	CLP Annex VI (ATP
Skin Irrit. 2; H315 Resp. Sens. 1; H334	CLP Annex VI (ATP
Skin Irrit. 2; H315	
Skin Irrit. 2; H315 Resp. Sens. 1; H334 STOT SE 3; H335	
	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Resp. Sens. 1; H334

