

SAFETY DATA SHEET

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

PU Wood Adhesive Gel 30 Min Cartridge

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

1.1. Product identifier

Product name : PU Wood Adhesive Gel 30 Min Cartridge

Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Adhesive

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout \$\mathbf{T}\$ +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

** +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

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

	0	
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	category 2	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H335: May cause respiratory irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.

2.2. Label elements





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

Signal word	Danger
H-statements	
H351	Suspected of causing cancer.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H315	Causes skin irritation

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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http://www.big.be

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if inhaled.

134-15960-480-en

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

- Persons already sensitised to diisocyanates may develop allergic reactions when using this product. - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

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 diisocya 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 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	ymer	99784-49-3	C>50 %	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)(10)	Constituent

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Conoral:

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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⁽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

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 ingestion:

Irritation of the gastric/intestinal mucosa.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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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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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

o-(p-Isocyanatobenzyl) p<mark>henylisocyanat</mark>

4,4'-Methylendiphenyldii<mark>socyanat</mark>

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

The Netherlands

Difenylmethaan-4,4'-diisocyanaat	Time-weighted average exposure limit 8 h (Private occupational	0.0048 ppm
	exposure limit value)	
	Time-weighted average exposure limit 8 h (Private occupational	0.05 mg/m³
	exposure limit value)	
	Short time value (Private occupational exposure limit value)	0.02 ppm
	Short time value (Private occupational exposure limit value)	0.21 mg/m ³

Belgium

4,4'-Diisocyanate de dip <mark>hénylméthane (MDI)</mark>	Time-weighted average exposure limit 8 h	0.005 ppm
	Time-weighted average exposure limit 8 h	0.052 mg/m ³

USA (TLV-ACGIH)

Methylene bisphenyl isocyanate (MDI)		Time-weig	hted average exposure limit 8 h (TLV - Ad	opted Value)	0.005 ppm
Germany					

Time-weighted average exposure limit 8 h (TRGS 900)

Time-weighted average exposure limit 8 h (TRGS 900)

0.05 mg/m³

0.05 mg/m³

France

	i i di ioo			
ĺ	4,4'-Diisocyanate de diph	nénylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non).01 ppm
			réglementaire indicative)	
			Time-weighted average exposure limit 8 h (VL: Valeur non).1 mg/m³
			réglementaire indicative)	
			Short time value (VL: Valeur non réglementaire indicative)).02 ppm
			Short time value (VL: Valeur non réglementaire indicative)).2 mg/m³

UK

Isocyanates, all (as -NCO)	Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit	0.02 mg/m³
		(EH40/2005))	
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m³

b) National biological limit values

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

8.1.2 Sampling methods

			<u> </u>
Product name		Test	Number
4,4-Methylene Bispheny	l Isocyanate (MDI) (Isocyanates)	NIOSH	5521
4,4'-Methylenebis(pheny	ylisocyanate)	NIOSH	5525
Isocyanates		NIOSH	5521
Isocyanates		NIOSH	5522
Methylene Bisphenyl Iso	cyanate - (MDI)	OSHA	18
Methylene Bisphenyl Iso	cyanate (MDI)	OSHA	47
Methylene Bisphenyl Iso	cyanate	OSHA	33

8.1.3 Applicable limit values when using the substance or mixture as intended

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

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	0.05 mg/m³	
	Acute local effects inhalation	0.1 mg/m ³	

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o-(p-isocyanatobenzyl)phenyl isocyanate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.05 mg/m³	
	Acute systemic effects inhalation	0.1 mg/m³	
	Long-term local effects inhalation	0.05 mg/m³	
	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	

DNEL/DMEL - General population

4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Long-term local effects inhalation	0.025 mg/m³	
		Acute systemic effects inhalation	0.05 mg/m³	

o-(p-isocyanatobenzyl)phenyl isocyanate

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	

PNEC

4,4'-methylenediphenyl diisocyanate

Compartments		Value	Remark		
Fresh water		1 mg/l			
Marine water		0.1 mg/l			
Aqua (intermittent rele	ases)	10 mg/l			
STP		1 mg/l			
Soil		1 mg/kg soil dw			

o-(p-isocyanatobenzyl)phenyl isocyanate

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	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

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

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

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 Paste
Odour	<mark>Characteristic</mark> odour
Odour threshold	No data available
Colour	Colourless

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Particle size		No data available				
Explosion limits		No data available				
Flammability		Non-flammable				
Log Kow		Not applicable (mixture)				
Dynamic viscosity		No data available				
Kinematic viscosity		No data available				
Melting point		No data available				
Boiling point		No data available				
Flash point		> 165 °C				
Evaporation rate		No data available				
Relative vapour density		> 2				
Vapour pressure		No data available				
Solubility		water ; insoluble				
Relative density		1.1				
Decomposition temperature No data available						
Auto-ignition temperatu	re	No data available				
Explosive properties		No chemical group associated with explosive properties				
Oxidising properties		lo chemical group associated with oxidising properties				
рН		No data available				

9.2. Other information

Absolute density 1146 kg/m³

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. Information on toxicological effects

11.1.1 Test results

Acute toxicity

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parar	neter	Method	Value		Exposure time		Value determination	Remark
Oral	LD50		Equivalent to OECD 401	> 7616 m	g/kg		Rat (female)	Read-across	
Dermal	LD50		Equivalent to OECD 402	> 9400 m	g/kg bw	24 h	Rabbit (male/female)	Read-across	
Dermal	us	taneo ption	EPA OPPTS 870.7600	0.9 %		8 h	Rat (male)	Experimental value	
Inhalation (aerosol)	LC50		Equivalent to OECD 403	0.49 mg/		4 h		Read-across	_
				category	4			Annex VI	

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Other	> 2000 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50	Equivalent to OECD	<mark>> 9400 m</mark> g/kg bw	24 h	Rabbit	Read-across	
		402			(male/female)		
Inhalation (aerosol)	LC50	OECD 403	387 mg/m³ air	4 h	Rat (male)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	<mark>645 mg/</mark> m³ air	4 h	Rat (female)	Experimental value	

aromatic polyisocyanate prepolymer

Route of exposure	Parameter	Method	Value	Exposure time	Value determination	Remark
Inhalation			category 4		Literature study	

Classification is based on the relevant ingredients

Conclusion

Harmful if inhaled.

Not classified as acute toxic if swallowed

Not classified as acute toxic in contact with skin

Corrosion/irritation

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Slightly irritating				Rabbit	Experimental value	
Eye	Irritating				Human	Weight of evidence	
Skin	Irritating	OECD 404	<mark>4 h</mark>	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating				Human	Weight of evidence	
Inhalation	Irritating				Human	Weight of evidence	

o-(p-isocyanatobenzyl)phenyl isocyanate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Irritating				Human	Weight of evidence	
Eye	Not irrit <mark>ating</mark>	OECD 405	<mark>24 h</mark>	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating	OECD 404	<mark>4 h</mark>	24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating				Human	Weight of evidence	
Inhalation	Irritatin <mark>g</mark>				Human	Weight of evidence	

aromatic polyisocyanate prepolymer

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Irritating; category					Literature study	
	2						
Skin	Irritatin <mark>g; category</mark>					Literature study	
	2						
Inhalation	Irritating; STOT SE					Literature study	
	cat.3						

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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

Respiratory or skin sensitisation

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Result	Method	Observation time point	Species	Value determination Remark
Skin	Sensitizi <mark>ng</mark>	OECD 429		Mouse	Experimental value
Inhalation	Sensitizin <mark>g</mark>			Rat (male)	Experimental value
Inhalation	Sensitizin <mark>g</mark>			Guinea pig (female)	Experimental value

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o-(p-isocyanatobenzyl)phenyl	isocvanate

Route of exposure	Result	Method	•	Observation time point	Species	Value determination Remark
Skin	Not sens <mark>itizing</mark>	Equivalent to OECD 406	12 h		Guinea pig (male/female)	Read-across
Skin	Sensitizing					Annex VI
Inhalation	Sensitizin <mark>g</mark>	Other			Guinea pig (female)	Read-across
Inhalation	Sensitizi <mark>ng</mark>				Human (male)	Weight of evidence

aromatic polyisocyanate prepolymer

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Skin	Sensitizin <mark>g;</mark>					Literature study	
	category 1						
Inhalation	Sensitizin <mark>g;</mark>					Literature study	
	category 1						

Classification is based on the relevant ingredients

Conclusion

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

May cause an allergic skin reaction.

Specific target organ toxicity

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate Value Effect Value Route of exposure Parameter Method Organ Exposure time Species determination Inhalation (aerosol) LOAEC <mark>0.23 mg/m³ air</mark> Lungs ≤ 104 weeks Other Lung tissue Rat (female) Experimental affection/degen (17h/day, 5 value days/week) eration

o-(p-isocyanatobenzyl)phenyl isocyanate

	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
ĺ	nhalation (aerosol)	NOAEC	Equivalent to	0.2 mg/m³ air	Respiratory	No effect	2 year(s) (6h/day, 5	Rat	Read-across
			OECD 453		tract		days/week)	(male/female)	
ſ	nhalation (aerosol)	LOAEC	Equivalent to	1 mg/m³ air	Respiratory	Histopathology	2 year(s) (6h/day, 5	Rat	Read-across
			OECD 453		tract		days/week)	(male/female)	

aromatic polyisocyanate prepolymer

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Value determination
Inhalation			STOT RE cat.2				Literature study

Classification is based on the relevant ingredients

Conclusion

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

Not classified as sub-chronically toxic in contact with skin

Not classified as sub-chronically toxic if swallowed

Mutagenicity (in vitro)

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
activation, negative without				
metabolic activation				

o-(p-isocyanatobenzyl)phenyl isocyanate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
activation, negative without				
metabolic activation				

Mutagenicity (in vivo)

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Result		Method Exposure time Te		Test substrate	Organ	Value determination	
Negative		OECD 474	3 weeks (1h/day, 1	Rat (male)		Experimental value	
			day/week)				

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o-(p-isocyanatobenzyl)phenyl isocyanate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	3 weeks (1h/day, 1	Rat (male)		Read-across
		day/week)			

Carcinogenicity

PU Wood Adhesive Gel 30 Min Cartridge

	Parameter	Method	Value	Exposure time	Species	Effect	- 3	Value
exposure								determination
Inhalation			category 2					Literature

4,4'-methylenediphenyl diisocyanate

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation	NOAEC	Other	0.7 mg/m³ air	104 weeks (17h/day,	Rat (female)	No carcinogenic		Experimental
(aerosol)				5 days/week)		effect		value

o-(p-isocyanatobenzyl)phenyl isocyanate

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation	NOAEC	Equivalent to	1 mg/m³ air	2 year(s) (6h/day, 5	Rat	No effect	Respiratory	Read-across
(aerosol)		OECD 453		days/week)	(male/female)		tract	
Inhalation	LOAEC	Equivalent to	6 mg/m³ air	2 year(s) (6h/day, 5	Rat	Tumor formation	Respiratory	Read-across
(aerosol)		OECD 453		days/week)	(male/female)		tract	

Reproductive toxicity

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

	Parameter	Method	Value	Exposure time	Species	Effect	- 3	Value determination
Developmental toxicity	NOAEL	OECD 414	3 mg/m³ air	10 days (6h/day)	Rat (female)	No effect		Experimental value
	LOAEL	OECD 414	9 mg/m³ air	10 days (6h/day)	Rat (female)	Embryotoxicity		Experimental value
Maternal toxicity	NOAEL		4 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Read-across
Effects on fertility								Data waiving

o-(p-isocyanatobenzyl)phenyl isocyanate

	Parameter	Method	Value	Exposure time	Species	Effect	- 3 -	Value determination
Developmental toxicity	NOAEL	OECD 414	4 mg/m³ air	10 days (6h/day)	* *	No adverse systemic effects		Read-across
Maternal toxicity	NOAEL	OECD 414	4 mg/m³ air	10 days (6h/day)		No adverse systemic effects		Read-across

Classification is based on the relevant ingredients

Conclusion CMR

Suspected of causing cancer.

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
LD50		100 mg/kg bw				Mouse (male)	Experimental value

Chronic effects from short and long-term exposure

PU Wood Adhesive Gel 30 Min Cartridge

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

SECTION 12: Ecological information

12.1. Toxicity

PU Wood Adhesive Gel 30 Min Cartridge

No (test)data on the mixture available

Reason for revision: 15 Publication date: 2003-01-30
Date of revision: 2016-02-19

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	Parameter	Method	Value		Duration	Species	Test des	ign	Fresh/salt water	Value determin
Acute toxicity fishes	LC50	OECD 203	> 1000	mg/l	96 h	Danio rerio	Static sys	stem	Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	129.7 r	ng/l	24 h	Daphnia magna	Static sys	stem	Fresh water	Read-across;
Toxicity algae and other aquation	c EC50	OECD 201	> 1640	mg/l	72 h	Desmodesmus	Static sys	stem	Fresh water	Locomotor effe Read-across; G
plants Long-term toxicity aquatic	NOEC	OECD 211	≥ 10 m	g/l	21 day(s)	subspicatus Daphnia magna	Semi-sta	tic	Fresh water	rate Read-across;
invertebrates Toxicity aquatic micro-	EC50	OECD 209	> 100 r	ng/l	3 h	Activated sludge	system Static sys	stem	Fresh water	Reproduction Read-across;
organisms										Nominal concentration
(p-isocyanatobenzyl)phenyl iso	<u>cyanate</u>									
	Parameter	Method	Value		Duration	Species	Test des	ign	Fresh/salt water	Value determi
Acute toxicity fishes	LC50	OECD 203	> 1000	mg/l	96 h	Brachydanio rerio	Static sys	stem	Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	> 1000	mg/l	24 h	Daphnia magna	Static sys	stem	Fresh water	Read-across; Nominal concentration
Toxicity algae and other aqu <mark>ation of the properties of the plants of th</mark>	c EC50	OECD 201	> 1640	mg/l	72 h	Scenedesmus subspicatus	Static sys	stem	Fresh water	Read-across; G
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥ 10 m	g/l	21 day(s)	Daphnia magna	Semi-sta system		Fresh water	Read-across; Nominal concentration
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 r	ng/l	3 h	Activated sludge	Static sys	stem	Fresh water	Read-across; G
	Parameter	Method		Va	lue	Duration	S	pecies	S	Value determine
Toxicity soil macro-organisms	NOEC	OECD 20				oil dw 14 day(s)			fetida	Read-across
Toxicity terrestrial plants	NOEC		nt to OEC			oil dw 14 day(s)		_	sativa	Read-across
gement is based on the relevan Iclusion Of classified as dangerous for the	J	Equivale 208	nt to OEC			oil dw 14 day(s)	La	actuca	a sativa	Read-across
nclusion ot classified as dangerous for the 2. Persistence and degra	it ingredients ne environmer adability	Equivale 208					Li	actuca	a sativa	Read-across
oclusion ot classified as dangerous fo <mark>r th</mark>	it ingredients ne environmer adability	Equivale 208					Li	actuca	a sativa	Read-across
iclusion ot classified as dangerous for th 2. Persistence and degra	it ingredients ne environmer adability	Equivale 208				c) No 1272/2008	L		a sativa ue determina	
nclusion ot classified as dangerous for the 2. Persistence and degra 4'-methylenediphenyl diisocyar Biodegradation water Method OECD 302C: Inherent Biodegr	it ingredients ne environmer adability nate	Equivale 208 at according to			Regulation (EC	i) No 1272/2008 tion	L	Val		
nclusion ot classified as dangerous for the a.2. Persistence and degra d'-methylenediphenyl diisocyar Biodegradation water Method OECD 302C: Inherent Biodegr Modified MITI Test (II)	t ingredients ac environmer adability nate	Equivale 208 at according to Value			Regulation (EC	i) No 1272/2008 tion	L	Val	ue determina	
nclusion ot classified as dangerous for the 2. Persistence and degra 4'-methylenediphenyl diisocyar Biodegradation water Method OECD 302C: Inherent Biodegr	t ingredients ac environmer adability nate	Equivale 208 at according to Value			Regulation (EC Dura 28 da	i) No 1272/2008 tion	L	Val Rea	ue determina ad-across	ation
nclusion ot classified as dangerous for the 2. Persistence and degra 4'-methylenediphenyl diisocyar Biodegradation water Method OECD 302C: Inherent Biodegr Modified MITI Test (II) Phototransformation air (DT50	t ingredients ac environmer adability nate	Equivale 208 at according to Value 0 %			Regulation (EC Dura 28 da	tion	L	Val Rea	ue determina ad-across ue determina	ation
clusion ot classified as dangerous for the 2. Persistence and degra 4'-methylenediphenyl diisocyar Biodegradation water Method OECD 302C: Inherent Biodegr Modified MITI Test (II) Phototransformation air (DT50 Method	t ingredients ac environmer adability nate	Equivale 208 at according to Value 0 %			Dura 28 da Conc	tion ey(s)		Val Rea Val QS/	ue determina ad-across ue determina	ation
Aclusion ot classified as dangerous for the classified as dang	adability radability:	Equivale 208 Int according to Value 0 % Value 0.92 day(s)			Dura 28 da Conc	tion ny(s)		Val	ue determina ad-across ue determina AR	ation
ciclusion ot classified as dangerous for the classified as dangerous degradation water Method OECD 302C: Inherent Biodegr Modified MITI Test (II) Phototransformation air (DT50 Method AOPWIN v1.92 Half-life water (t1/2 water) Method (p-isocyanatobenzyl)phenyl iso	adability radability:	Equivale 208 Int according to Value 0 % Value 0.92 day(s) Value			Dura 28 da Conc	tion ey(s)		Val	ue determina ad-across ue determina AR ue determina	ation
ciclusion ot classified as dangerous for the classified as dangerous dangero	adability radability:	Equivale 208 Int according to Value 0.92 day(s) Value 20 h			Dura 28 da Conc Prima degra	tion ay(s) OH-radicals ary adation/mineralisa		Val Rea Val QS/	ue determina ad-across ue determina AR ue determina ad-across	ation ation
ciclusion ot classified as dangerous for the classified as dangerous dangero	radability: Dair)	Value 0.92 day(s) Value 10.92 day Value 10.92 day			Dura 28 da Conc Prima degra	tion ay(s) OH-radicals ary adation/mineralisa		Val Rea Val QS/ Val Rea	ue determina ad-across ue determina AR ue determina ad-across ue determina	ation ation
ciclusion ot classified as dangerous for the classified as dangerous dangero	radability: Dair)	Equivale 208 Int according to Value 0.92 day(s) Value 20 h			Dura 28 da Conc Prima degra	tion ay(s) OH-radicals ary adation/mineralisa		Val Rea Val QS/ Val Rea	ue determina ad-across ue determina AR ue determina ad-across	ation ation
ciclusion ot classified as dangerous for the classified as dangerous degradation water Method AOPWIN v1.92 Half-life water (t1/2 water) Method (p-isocyanatobenzyl)phenyl iso Biodegradation water Method OECD 302C: Inherent Biodegr Modified MITI Test (II) Phototransformation air (DT50	radability: cyanate radability:	Equivale 208 Value 0 % Value 0.92 day(s) Value 20 h Value 0 %			Dura 28 da Conc Prima degra Dura 28 da	tion ay(s) OH-radicals ary adation/mineralisation ay(s)		Val Rea Val QS/ Val Rea	ue determina ad-across ue determina AR ue determina ad-across ue determina ad-across	ation ation
ciclusion ot classified as dangerous for the classified as dangerous dange	radability: cyanate radability:	Equivale 208 Value 0 % Value 0.92 day(s) Value 20 h Value 0 %	the crite		Dura 28 da Dura 28 da Conc	tion ay(s) OH-radicals ary adation/mineralisation ay(s)		Val Rea Val QS/ Val Rea	ue determina ad-across ue determina AR ue determina ad-across ue determina	ation ation
ciclusion ot classified as dangerous for the classified as dangerous dange	radability: cyanate radability:	Equivale 208 Value 0 % Value 0.92 day(s) Value 20 h Value 0 %	the crite		Dura 28 da Dura 28 da Conc	tion ay(s) OH-radicals ary adation/mineralisation ay(s)		Val Rea Val QS/ Val Rea Val	ue determina ad-across ue determina AR ue determina ad-across ue determina ad-across	ation ation
ciclusion ot classified as dangerous for the classified as dangerous dange	radability: cyanate radability:	Equivale 208 Value 0 % Value 0.92 day(s) Value 20 h Value 0 %	the crite		Dura 28 da Conc Prima 28 da Conc Dura 128 da Conc Prima 28 da	tion ay(s) OH-radicals ation adation/mineralisa tion ay(s) OH-radicals OH-radicals	tion	Val Rea Val QS/ Val Rea Val Rea	ue determina AR ue determina ad-across ue determina ad-across ue determina ad-across	ation ation ation ue
ciclusion ot classified as dangerous for the classified as dangerous dange	radability: cyanate radability:	Value 0.92 day(s) Value 0.92 day(s) Value 0.98 day(s);	the crite		Dura 28 da Conc Prima 28 da Conc Dura 128 da Conc Prima 28 da	tion ay(s) OH-radicals ation adation/mineralisa tion ay(s) OH-radicals OH-radicals	tion	Val Rea Val QS/ Val Rea Val Exp	ue determina ad-across ue determina ad-across ue determina ad-across ue determina ad-across	ation ation ation ue
ciclusion ot classified as dangerous for the classified as dangerous degradation water Method AOPWIN v1.92 Half-life water (t1/2 water) Method OECD 302C: Inherent Biodegr Modified MITI Test (II) Phototransformation air (DT50 Method AOPWIN v1.92 Half-life water (t1/2 water) Method AOPWIN v1.92 Half-life water (t1/2 water) Method	radability: cyanate radability:	Value 0 % Value 0.92 day(s) Value 0 % Value 0.99 day(s); Value 0.89 day(s); Value	the crite		Dura 28 da Conc Prima 28 da Conc Dura 128 da Conc Prima 28 da	tion ay(s) OH-radicals ation adation/mineralisa tion ay(s) OH-radicals OH-radicals	tion	Val Rea Val QS/ Val Rea Val Exp	ue determina ad-across	ation ation ation ue
ciclusion ot classified as dangerous for the classified as dangerous dange	radability: cyanate radability:	Value 0 % Value 0.92 day(s) Value 0 % Value 0.99 day(s); Value 0.89 day(s); Value	the crite		Dura 28 da Conc Prima 28 da Conc Dura 128 da Conc Prima 28 da	tion ay(s) OH-radicals ation adation/mineralisa tion ay(s) OH-radicals OH-radicals	tion	Val Rea Val QS/ Val Rea Val Rea Val Rea	ue determina ad-across ue determina ad-across	ation ation ation ue

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Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

PU Wood Adhesive Gel 30 Min Cartridge

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

4,4'-methylenediphenyl diisocyanate

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
		5.22		Estimated value
OECD 117			22 °C	Experimental value

o-(p-isocyanatobenzyl)phenyl isocyanate

BCF fishes

	Parameter	Method	Value	Duration	Species	Value determination
	BCF	OECD 305	92 - 200	28 day(s)	Cyprinus carpio	Read-across
. '						

Loa Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		<mark>4.5</mark> 1	22 °C	Conclusion by analogy

aromatic polyisocyanate prepolymer

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

4,4'-methylenediphenyl diisocyanate

Volatility (Henry's Law constant H)

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

Conclusion

No (test)data on mobility of the components available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

PU Wood Adhesive Gel 30 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).

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Date of revision: 2016-02-19

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ECTION 14: Transport information	
Road (ADR)	
14.1. UN number	_
Transport	Not subject
14.2. UN proper shipping name	, rot subject
14.3. Transport hazard class(es)	
Hazard identification number	
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	
Rail (RID)	
14.1. UN number	
Transport	Not subject
14.2. UN proper shipping name	Processigned
14.3. Transport hazard class(es)	
Hazard identification number	
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	
Inland waterways (ADN)	
14.1. UN number	
Transport	Not subject
14.2. UN proper shipping name	NOT SUBJECT
14.3. Transport hazard class(es)	
Class	
Classification code	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	
Sea (IMDG/IMSBC)	
14.1. UN number	
	Not subject
Transport 14.2. UN proper shipping name	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	no
14.6. Special precautions for user	
Special previsions	
Limited quantities	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
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Annex II of MARPOL 73/	78			
Air (ICAO-TI/IATA-DGR) 14.1. UN number				
Transport			Not subject	
14.2. UN proper shipping na	me			
14.3. Transport hazard class	(es)			
Class				
14.4. Packing group				
Packing group				
Labels				
14.5. Environmental hazards	5			
Environmentally hazardo	ous substance mark		no	
14.6. Special precautions for	user			
Special provisions				
Passenger and cargo trai	nsport: limited quantities: maximum ne	t quantity		
per packaging				

SECTION 15: Regulatory information

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

European legislation:

Reason for revision: 15

VOC content Directive 2010/75/EU

VOC content	Rei	mark	
0 %			
0 g/l	1		

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.

and use of certain da <mark>ngerous substances, mixtures and arti</mark> cles.						
		Designation of the substance, of the g	group of	Conditions of restriction		
		substances or of the mixture				
· aromatic polyisocyanate prepolymer	r	Liquid substances or mixtures which a	are	1. Shall not be used in:		
		regarded as dangerous in accordance	with	 ornamental articles intended to produce light or colour effects by means of different 		
		Directive 1999/45/EC or are fulfilling t	the	phases, for example in ornamental lamps and ashtrays,		
		criteria for any of the following hazard	d classes	— tricks and jokes,		
		or categories set out in Annex I to Reg	gulation	— games for one or more participants, or any article intended to be used as such, even with		
		(EC) No 1272/2008:		ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the		
		(a) hazard classes 2.1 to 2.4, 2.6 and 2	2.7, 2.8	market.3. Shall not be placed on the market if they contain a colouring agent, unless		
				required for fiscal reasons, or perfume, or both, if they:		
		and 2, 2.14 categories 1 and 2, 2.15 ty	pes A to	— can be used as fuel in decorative oil lamps for supply to the general public, and,		
		F;	·	— present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps		
		(b) hazard classes 3.1 to 3.6, 3.7 adver	rse	for supply to the general public shall not be placed on the market unless they conform to		
		effects on sexual function and fertility		the European Standard on Decorative oil lamps (EN 14059) adopted by the European		
		development, 3.8 effects other than r		Committee for Standardisation (CEN).5. Without prejudice to the implementation of other		
		effects, 3.9 and 3.10;		Community provisions relating to the classification, packaging and labelling of dangerous		
		(c) hazard class 4.1;		substances and mixtures, suppliers shall ensure, before the placing on the market, that the		
		(d) hazard class 5.1.		following requirements are met:		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly,		
				legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of		
				children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of		
				lamps — may lead to life- threatening lung damage";		
				b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are		
				legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may		
				lead to life threatening lung damage";		
				c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general		
				public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6.		
				No later than 1 June 2014, the Commission shall request the European Chemicals Agency to		
				prepare a dossier, in accordance with Article 69 of the present Regulation with a view to		
				ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304,		
				intended for supply to the general public.7. Natural or legal persons placing on the market		
				for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1		
				December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill		
				lighter fluids labelled R65 or H304 to the competent authority in the Member State		
				concerned. Member States shall make those data available to the Commission.'		
				concerned. Member States shall make those data available to the commission.		
· 4,4'-methylenediphenyl diisocyanate		Methylenediphenyl diisocyanate (MD		1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in		
· o-(p-isocyanatobenzyl)phenyl isocya		including the following specific isome		concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general		
		Methylenediphenyl diisocyanate; 2,4'		public, unless suppliers shall ensure before the placing on the market that the packaging:		
		Methylenediphenyl diisocyanate; 2,2'		(a) contains protective gloves which comply with the requirements of Council Directive		
		Methylenediphenyl diisocyanate		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.		

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	 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

This product should not be used under conditions of poor ventilation unless a protective
mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.2.
 By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.

National legislation The Netherlands

PU Wood Adhesive Gel 30 Min Cartridge

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

National legislation Germany

MAK - Krehserzeugend

PU Wood Adhesive Gel 30 Min Cartridge

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

4,4'-methylenediphenyl diisocyanate

WIAK KICDSCIZCUBCIIG		T				
Kategorie						
Schwangerschaft Gruppe	е	С				
MAK 8-Stunden-Mittelw	ert	Diphenylmethan-4,4'-diisocyanat	t (MDI) (einatembare Fraktion)	; 0.05 mg/m³; geme	essen als einatembare Frakt	ion (vgl.
mg/m³		Abschn. Vd) S. 191)				
TA-Luft		5.2.5; I				
		5 2 5				

o-(p-isocyanatobenzyl)phenyl isocyanate

o (p isocyaniacosciizyi)p	,	70 y a marce		
TA-Luft		5.2.5; I		
		5.2.5		

National legislation France

PU Wood Adhesive Gel 30 Min Cartridge

No data available

4,4'-methylenediphenyl diisocyanate

Catégorie cancérogène C2

National legislation Belgium

PU Wood Adhesive Gel 30 Min Cartridge

No data available

Other relevant data

PU Wood Adhesive Gel 30 Min Cartridge

No data available

4,4'-methylenediphenyl diisocyanate

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

15.2. Chemical safety assessment

No chemical safety assessment is required.

SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 3:

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 if inhaled.

H373 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits CLP

4,4'-methylenediphenyl diisocyanate	C≥5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 1)
	C≥5%	Skin Irrit. 2; H315	CLP Annex VI (ATP 1)
	C ≥ 0.1 %	Resp. Sens. 1; H334	CLP Annex VI (ATP 1)
	C≥5%	STOT SE 3; H335	CLP Annex VI (ATP 1)
o-(p-isocyanatobenzyl)phenyl isocyanate	C ≥ 5 %	Eye Irrit. 2; H319	CLP Annex VI (ATP 1)
	C≥5%	Skin Irrit. 2; H315	CLP Annex VI (ATP 1)
	C ≥ 0.1 %	Resp. Sens. 1; H334	CLP Annex VI (ATP 1)
	C≥5%	STOT SE 3; H335	CLP Annex VI (ATP 1)

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The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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