

SAFETY DATA SHEET

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

PU Construct

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

1.1. Product identifier

Product name : PU Construct

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

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

4 +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

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

Class	Category	Hazard statements
Carc.	categ <mark>ory 2</mark>	H351: Suspected of causing cancer.
Resp. Sens.	categ <mark>ory 1</mark>	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	categ <mark>ory 1</mark>	H317: May cause an allergic skin reaction.
Eye Dam.	categ <mark>ory 1</mark>	H318: Causes serious eye damage.
Skin Irrit.	categ <mark>ory 2</mark>	H315: Causes skin irritation.
STOT SE	category 3	H335: May cause respiratory irritation.

2.2. Label elements







Contains: calcium oxide; 4,4'-methylenediphenyl diisocyanate; polymethylene polyphenyl isocyanate.

Signal word

H-statements

H351 Suspected of causing cancer.

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

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H315 Causes skin irritation. H335 May cause respiratory irritation.

P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be

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P280 Wear protective gloves, protective clothing and eye protection/face protection.

P264 Wash hands thoroughly after handling.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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
calcium oxide 01-2119475325-36		1305-78-8 215-138-9		Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335	(1)(2)	Constituent
4,4'-methylenediphenyl diisocya 01-2119457014-47		101-68-8 202-966-0		Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)	Constituent
propylene carbonate 01-2119537232-48		108-32-7 203-572-1	1% <c<3% %<="" td=""><td>Eye Irrit. 2; H319</td><td>(1)(10)</td><td>Constituent</td></c<3%>	Eye Irrit. 2; H319	(1)(10)	Constituent
hydrocarbons, C10-C12, isoalkar 01-2119471991-29	nes, < 2% aromatics			Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	(1)(10)	Constituent
polymethylene polyphenyl isocy	anate	9016-87-9		Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)(18)(V)	Polymer

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

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:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Soap may be used. Take victim to a doctor if irritation persists.

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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

⁽¹⁸⁾ Polymethylene polyphenyl isocyanate, contains > 0.1% MDI-isomers

⁽V) Exempted from registration under REACH (Regulation (EC) No 1907/2006, article 2 (9), polymers)

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

Irritation of the respiratory tract. Irritation of the nasal mucous membranes

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Corrosion of the eye tissue.

After ingestion:

No effects known.

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:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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).

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. Face-shield. 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. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Solid spill: shovel. 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.

<u>SECTION</u> 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. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

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Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

Synthetic material.

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

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

_	u	,	

Calcium oxide	Time-weighted average exposure limit 8 h (Indicative occupational	1 mg/m³
	exposure limit value)	
	Short time value (Indicative occupational exposure limit value)	4 mg/m³

Belgium

20.9.4		
4,4'-Diisocyanate de diph <mark>énylméthane (MDI)</mark>	Time-weighted average exposure limit 8 h	0.005 ppm
	Time-weighted average exposure limit 8 h	0.052 mg/m³
Calcium (oxyde de) (fracti <mark>on alvéolaire)</mark>	Time-weighted average exposure limit 8 h	1 mg/m³
	Short time value	4 mg/m³

The Netherlands

Calciumoxide	Time-weighted average exposure limit 8 h (Public occupational exposure 1 mg/m³
	limit value)
	Short time value (Public occupational exposure limit value) 4 mg/m³

	Tance			_
4,4'-Diisocyanate de diph <mark>énylméthane</mark>		énylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire 0	.01 ppm
			indicative)	
			Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire 0	0.1 mg/m ³
			indicative)	
			Short time value (VL: Valeur non réglementaire indicative) 0	.02 ppm
			Short time value (VL: Valeur non réglementaire indicative)	.2 mg/m ³
	Calcium (oxyde de)		Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire 2	mg/m³
			indicative)	

Germany

4,4'-Methylendiphenyldii <mark>socyanat</mark>	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³
Calciumoxid	Time-weighted average exposure limit 8 h (TRGS 900)	1 mg/m³
pMDI (als MDI berechnet)	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³

UK

, ,		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	4 mg/m³
Calcium oxide		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	2 mg/m³
Isocyanates, all (as -NCO)		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m³

USA (TLV-ACGIH)

Calcium oxide	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	2 mg/m³
Methylene bisphenyl isoc <mark>yanate (MDI)</mark>	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.005 ppm

b) National biological limit values

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

8.1.2 Sampling methods

- camping memoral		
Product name	Test	Number
4,4-Methylene Bisphenyl <mark>Isocyanate (MDI) (Isocyanates)</mark>	NIOSH	5521
4,4'-Methylenebis(pheny <mark>lisocyanate)</mark>	NIOSH	5525
Calcium Oxide (Calcium)	NIOSH	7020
Isocyanates	NIOSH	5521
Isocyanates	NIOSH	5522
Isocyanates	NIOSH	5521

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Product name	Test	Number
Methylene Bisphenyl Isoc <mark>yanate - (MDI)</mark>	OSHA	18
Methylene Bisphenyl Isoc <mark>yanate (MDI)</mark>	OSHA	47
Methylene Bisphenyl Isoc <mark>yanate</mark>	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 Threshold values

DNEL/DMEL - Workers

calcium oxide

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m³	
	Acute local effects inhalation	4 mg/m³	

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/m³	

propylene carbonate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	70.53 mg/m ³	
	Long-term local effects inhalation	20 mg/m ³	
	Long-term systemic effects dermal	20 mg/kg bw/day	
	Long-term local effects dermal	10 mg/m ³	

DNEL/DMEL - General population

calcium oxide

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m³	
	Acute local effects inhalation	4 mg/m ³	

4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMI	EL)	Туре	Value	Remark
DNEL		Long-term local effects inhalation	0.025 mg/m³	
		Acute systemic effects inhalation	0.05 mg/m ³	

propylene carbonate

Effect level (DNEL/DMI	EL)	Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	17.4 mg/m ³	
		Long-term local effects inhalation	10 mg/m ³	
		L <mark>ong-term systemic effect</mark> s dermal	10 mg/kg bw/day	
		Long-term systemic effects oral	10 mg/kg bw/day	

PNEC

calcium oxide

Compartments	Value	Remark
Fresh water	<mark>0.37 mg/</mark> l	
Marine water	<mark>0.24 mg/</mark> l	
Aqua (intermittent rele <mark>ases)</mark>	0.24 mg/l	
STP	<mark>2.27 mg/l</mark>	
Soil	<mark>817.4 mg</mark> /kg soil dw	

4,4'-methylenediphenyl diisocyanate

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	

propylene carbonate

or opyrene carbonate			_
Compartments	Value	Remark	
Fresh water	0.9 mg/l		
Marine water	0.09 mg/l		
Aqua (intermittent releases)	9 mg/l		
STP	7400 mg/l		
Soil	0.81 mg/l		

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. Do not eat, drink or smoke during work.

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a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN374).

c) Eye protection:

Face shield.

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		Characteristic odour
Odour threshold		No data available
Colour		Variable in colour, depending on the composition
Particle size		Not applicable (liquid)
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
Evaporation rate		No data available
Relative vapour density		No data available
Vapour pressure		No data available
Solubility		Water ; No data available
Relative density		1.47
Decomposition temperate	ure	No data available
Auto-ignition temperature	e	No data available
Flash point		Not applicable
Explosive properties		No chemical group associated with explosive properties
Oxidising properties		No chemical group associated with oxidising properties
рН		No data available

9.2. Other information

Absolute density 1470 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

PU Construct

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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- 1	Route of exposure	Para	meter	Method	Value		Exposure time		Value determination	Remark
7	Oral	LD50		OECD 425	> 2000 m	g/kg bw		Rat (female)	Experimental value	
	Dermal	LD50		EU Method B.3	> 2500 m	g/kg bw	24 h	Rabbit (male / female)	Experimental value	
Ī	Inhalation							,	Data waiving	
	-methylenediphenyl			†				1		•
	Route of exposure	Para	meter	Method	Value		Exposure time	Species	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	
	Inhalation (aerosol)	LC50		Equivalent to OECD 403	0.49 mg/l	air	4 h	Rat (male / female)	Read-across	
Ī	Inhalation				category	4			Annex VI	
oror	pylene carbonate									
	Route of exposure	Para	meter	Method	Value		Exposure time		Value determination	Remark
•	Oral	LD50		OECD 401	> 5000 m	g/kg bw		Rat (male / female)	Experimental value	
-	Dermal	LD50		OECD 402	> 2000 m	g/kg bw	24 h	Rabbit (male / female)	Experimental value	
ŀ	Inhalation								Data waiving	
nyd	rocarbons, C10-C12	, isoalka	anes, < 2	2% aromatics					<u> </u>	
	Route of exposure			Method	Value		Exposure time	-	Value determination	Remark
	Oral	LD50		Equivalent to OECD 423	> 15000 r			Rat (male / female)	Read-across	
	Dermal	LD50		Equivalent to OECD 402	≥ 3160 m		24 h	Rabbit (male / female)	Read-across	
	Inhalation (vapours)) LC50		Equivalent to OECD 403	> 4951 m	g/m³ air	4 h	Rat (male)	Read-across	
oly	methylene polyphe	nyl isoc	yanate							
	Route of exposure	Para	meter	Method	Value		Exposure time		Value determination	Remark
[Oral	LD50			> 10000 r	ng/kg		Rat	Literature study	
1	Dermal	LD50			> 5000 m	g/kg		Rabbit	Literature study	
Ī	Inhalation (vapours)	LD50			10 mg/l -	20 mg/l	4 h	Rat	Literature study	
Į.		_			category	4			Literature study	
oncl	Inhalation usion			l						
oncl Not sior Con: No (usion classified for acute n/irritation struct (test)data on the missification is based on	xture a	<i>v</i> ailable							
oncl Not sior Cons No (usion classified for acute n/irritation struct (test)data on the missification is based or ium oxide	xture a	<i>v</i> ailable	ingredients	Exposi	ure time	Time point	Species	Value	Remark
oncl Not Sior Cons No (Class Calci	usion classified for acute n/irritation struct (test)data on the missification is based of ium oxide Route of exposure	xture as n the re Result	vailable elevant i	Method	Exposu	ure time	Time point	Species	Value determination	
oncl Not Sior Cons No (Class	usion classified for acute in/irritation struct (test)data on the missification is based of ium oxide Route of exposure	xture a	vailable elevant i	ingredients	Exposu	ure time	Time point	Species Rabbit		
noncli Not Sior Cons No (Class calci	usion classified for acute in/irritation struct (test)data on the missification is based of ium oxide Route of exposure	xture and the result	vailable elevant i	Method	Exposu 4 h	ure time		·	determination	
consideration of the state of t	usion classified for acute n/irritation struct (test)data on the missification is based of item oxide coute of exposure fixe	xture and the result Serious damage	vailable elevant i eye	Method OECD 405		ure time	1 hour	Rabbit	determination Experimental valu	e Single treatme
onci Not Sior Cons No (Class calci	usion classified for acute n/irritation struct (test)data on the missification is based of item oxide coute of exposure fixe	xture and the result Serious damage irritating irritat	eye	Method OECD 405 OECD 404 Human		ure time	1 hour	Rabbit Rabbit	determination Experimental valu Read-across	e Single treatme
oncil Not Sior Cons No (Class calcil R	usion classified for acute n/irritation struct (test)data on the mi. ssification is based or ium oxide Route of exposure Sye Skin Inhalation	xture aven the result Serious damage irritating rritating I diisocy	eye	Method OECD 405 OECD 404 Human	4 h	ure time	1 hour	Rabbit Rabbit	determination Experimental valu Read-across	e Single treatme
Not Sior Constant R	usion classified for acute on /irritation struct (test)data on the mitsification is based on item oxide Route of exposure Eye Skin Inhalation I	xture and the result Serious damage rritating rritating Result	eye	Method OECD 405 OECD 404 Human observation Method	4 h		1 hour 24; 48; 72 hours	Rabbit Rabbit Human	determination Experimental value Read-across Experimental value Value determination Experimental value	e Single treatme
Doncil Not Sior Con: No (Class Calci	usion classified for acute in/irritation struct (test)data on the missification is based or immoxide Route of exposure skin inhalation inhalati	xture and the result Serious damage rritating rritating Result	vailable elevant i eye g g ranate irritatin	Method OECD 405 OECD 404 Human observation Method	4 h		1 hour 24; 48; 72 hours	Rabbit Rabbit Human Species Rabbit Human	determination Experimental value Read-across Experimental value Value determination	e Single treatme
poncii Not Sior No (Class Calcii R S Ir	usion classified for acute in/irritation struct (test)data on the mitsisfication is based on item oxide Route of exposure skin inhalation inhalation inhalation inhalation is based oxide in inhalation inhalation inhalation inhalation inhalation inhalation inhalation is sye	xture and the result Serious damage irritating rritating Result	vailable elevant i eye g g vanate irritatin	Method OECD 405 OECD 404 Human observation Method	4 h		1 hour 24; 48; 72 hours	Rabbit Rabbit Human Species Rabbit	determination Experimental value Read-across Experimental value Value determination Experimental value	e Single treatme
pncli Not Sior No (Class calcie R S Ir	usion classified for acute in/irritation struct (test)data on the missification is based or immoxide Route of exposure is skin inhalation inhalation is part of exposure is skin inhalation is skin inhalation inhalation is skin inhalation inhalation is skin inha	xture and the result Serious damage rritating rritating Result Slightly	vailable elevant i eye g g ranate irritatin	Method OECD 405 OECD 404 Human observation Method	4 h		1 hour 24; 48; 72 hours Time point	Rabbit Rabbit Human Species Rabbit Human	determination Experimental value Read-across Experimental value Value determination Experimental value Weight of evidence	e Single treatme e Remark e

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	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405	2 seconds	1; 2; 3; 7 days	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OEC 404	D 24 h	24; 72 hours	Rabbit	Experimental value	
drocarbons, C10-C1	2, isoalkanes, < 2	2% aromatics			_		
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OEC 405	D	1; 24; 48; 72; 168 hours	Rabbit	Read-across	
Skin	Not irritating	Equivalent to OEC 404	D 4 h	24; 48; 72 hours	Rabbit	Read-across	
lymethylene polyph	nenyl isoc <mark>vanate</mark>						
Route of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Literature study	
Skin	Irritating;					Literature study	
	category 2					1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Inhalation	Irritating; STOT SE cat.3					Literature study	
clusion auses skin irritation.							
iuses serious eye da	mage.						
ay cause respiratory							
-,,							
tory or skin sensitis	ation						
-							
nstruct							
o (test)data on the n							
assification is based	on the re <mark>levant i</mark>	ngredients					
lcium oxide	L	h		Tax	1-	h	_
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
				ponit			
Skin				point		Data waiving	
Skin 4'-methylenedipher Route of exposure		Method	Exposure time	Observation time	Species	Data waiving Value determination	Remark
4'-methylenedipher		Equivalent to OECD	Exposure time		Guinea pig (male		Remark
4'-methylenedipher Route of exposure Skin	Result Not sensitizing		·	Observation time point	Guinea pig (male / female)	Value determination Experimental value	Remark
4'-methylenedipher Route of exposure Skin Inhalation	Result Not sensitizing Sensitizing	Equivalent to OECD	·	Observation time point	Guinea pig (male / female) Rat (male)	Value determination Experimental value Experimental value	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation	Result Not sensitizing	Equivalent to OECD	·	Observation time point	Guinea pig (male / female)	Value determination Experimental value	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation opylene carbonate	Result Not sensitizing Sensitizing Sensitizing	Equivalent to OECD 406	12 h	Observation time point 24; 48 hours	Guinea pig (male / female) Rat (male) Guinea pig (female)	Value determination Experimental value Experimental value Experimental value	
4'-methylenedipher Route of exposure Skin Inhalation Inhalation	Result Not sensitizing Sensitizing Sensitizing	Equivalent to OECD	·	Observation time point	Guinea pig (male / female) Rat (male) Guinea pig	Value determination Experimental value Experimental value	
4'-methylenedipher Route of exposure Skin Inhalation Inhalation opylene carbonate	Result Not sensitizing Sensitizing Sensitizing	Equivalent to OECD 406	12 h	Observation time point 24; 48 hours Observation time	Guinea pig (male / female) Rat (male) Guinea pig (female)	Value determination Experimental value Experimental value Experimental value	
4'-methylenedipher Route of exposure Skin Inhalation Inhalation opylene carbonate Route of exposure	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing	Equivalent to OECD 406 Method Patch test	12 h	Observation time point 24; 48 hours Observation time	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male /	Value determination Experimental value Experimental value Experimental value Value determination	
4'-methylenedipher Route of exposure Skin Inhalation Inhalation opylene carbonate Route of exposure	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2	Equivalent to OECD 406 Method Patch test	12 h	Observation time point 24; 48 hours Observation time	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male /	Value determination Experimental value Experimental value Experimental value Value determination	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation opylene carbonate Route of exposure Skin	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406	12 h Exposure time	Observation time point 24; 48 hours Observation time point Observation time	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing	Method Patch test Wethod Equivalent to OECD	12 h Exposure time	Observation time point 24; 48 hours Observation time point Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig	Value determination Experimental value Experimental value Experimental value Value determination Experimental value	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation opylene carbonate Route of exposure Skin rdrocarbons, C10-C1 Route of exposure	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing not sensitizing	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406	12 h Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin Skin Olymethylene polypl Route of exposure	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing not sensitizing enyl isocyanate Result	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation	Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across Value determination	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin Olymethylene polyph Route of exposure	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing envi isocyanate Result Sensitizing;	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation	Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin Olymethylene polyph Route of exposure	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing envyl isocyanate Result Sensitizing; category 1	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation	Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across Value determination Literature study	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin Olymethylene polyph Route of exposure Skin Inhalation	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing envyl isocyanate Result Sensitizing; category 1 Sensitizing;	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation	Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across Value determination	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin Olymethylene polyph Route of exposure Skin Inhalation	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing Result Sensitizing Sensitizing Sensitizing; category 1 Sensitizing; category 1	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation	Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across Value determination Literature study	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Idrocarbons, C10-C1 Route of exposure Skin Skin Skin Inhalation Skin Inhalation In	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing enyl isocyanate Result Sensitizing; category 1 skin reaction. asthma symptom	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation	Exposure time Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across Value determination Literature study	Remark
4'-methylenedipher Route of exposure Skin Inhalation Inhalation Opylene carbonate Route of exposure Skin Indrocarbons, C10-C1 Route of exposure Skin Skin Skin Skin Olymethylene polypl Route of exposure Skin Inhalation Inhalation ay cause an allergic	Result Not sensitizing Sensitizing Sensitizing Result Not sensitizing 2, isoalkanes, < 2 Result Not sensitizing Not sensitizing enyl isocyanate Result Sensitizing; category 1 skin reaction. asthma symptom	Equivalent to OECD 406 Method Patch test Method Equivalent to OECD 406 Human observation Method	Exposure time Exposure time Exposure time	Observation time point 24; 48 hours Observation time point Observation time point 24; 48 hours Observation time point	Guinea pig (male / female) Rat (male) Guinea pig (female) Species Human (male / female) Species Guinea pig (female) Human (male / female)	Value determination Experimental value Experimental value Experimental value Value determination Experimental value Value determination Read-across Read-across Value determination Literature study	Remark

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	e Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determina
Oral (diet)	Dose level		2.5 %		No adverse systemic effects	52 week(s)	Rat (male)	Experimer value
Dermal								Data waivi
Inhalation								Data waivi
4'-methylenediphe Route of exposu			Value	Organ	Effect	Exposure time	Species	Value
Labatatia a	10450		0.22 /3				Dat (famala)	determina
Inhalation (aerosol)	LOAEC		0.23 mg/m³ air	Lungs	Lung tissue affection/dege neration	≤ 104 weeks (17h / day, 5 e days / week)	Rat (female)	Experimen value
Route of exposu		Method	Value	Organ	Effect	Exposure time	Species	Value determina
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	> 5000 mg/kg bw/day		No effect	13 weeks (5 days / week)	Rat (male / female)	Experimen value
Dermal		JLCD 400	Jw/ uay				remale)	Data waivi
Inhalation	NOAEC	Equivalent to	100 mg/m³ air		No effect	13 weeks (6h / day, 5	Rat (male /	Experimen
(aerosol)	local effects	OECD 413				days / week)	female)	value
Inhalation (aerosol)	LOAEC local effects	Equivalent to OECD 413	500 mg/m³ air	Eyelid	Irritation of the eye tissue	e13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimen value
Inhalation (aerosol)	NOAEC systemic effects	Equivalent to OECD 413	1000 mg/m³ air		No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimen value
ydrocarbons, C10-C							i	
Route of exposu	e Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determina
Oral (stomach tube)	NOAEL	Equivalent to OECD 422	≥ 1000 mg/kg bw/day		No effect		Rat (male / female)	Read-acro
Oral (diet)	NOAEL	Equivalent to OECD 408	≥ 1000 ppm		No effect	13 weeks (daily)	Dog (male / female)	Read-acro
Oral (diet)	NOAEL	Equivalent to OECD 408	≥ 30000 ppm		No effect	13 weeks (daily)	Rat (male / female)	Read-acro
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	> 10400 mg/m ³ air			13 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-acros
olymethylene polyp		nate_				1.1/2/	, ,	
Route of exposu	e Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determina
Inhalation			STOT RE cat.2					Literature
nclusion lot classified for sub enicity (in vitro) onstruct to (test)data on the alcium oxide		,						
Result		Method		Test subst	rate	Effect	Value det	ermination
Negative with me activation, negati metabolic activat	ve withou <mark>t</mark> ion	OECD 471		Bacteria (S	.typhimurium)	No effect	Experimer	ntal value
	nyl diisocy <mark>an</mark>	ate Method		Test subst	rate	Effect	Value det	ermination
	etabolic	Equivalent to C	ECD 471	_	.typhimurium)	No effect	Experimer	
4'-methylenediphe Result Negative with me activation, negatimetabolic activat	ve withou <mark>t</mark> ion					Effect	Malua dat	
Result Negative with me activation, negatimetabolic activatropylene carbonate	ve withou <mark>t</mark> ion	Mothod		Toot outset	rato		ivalue det	ormination
Result Negative with me activation, negati metabolic activatropylene carbonate Result	ve without ion	Method Equivalent to C	ECD 471	Test subst		Ellect		ermination ntal value
Result Negative with me activation, negatimetabolic activatopylene carbonate	ve without ion etabolic ve without	Method Equivalent to C	ECD 471		rate .typhimurium)	Effect	Experimer	
Result Negative with me activation, negati metabolic activation activation propulene carbonate Result Negative with me activation, negati	ve without ion				.typhimurium)	Enect		ntal value
Result Negative with me activation, negati metabolic activation propulene carbonate Result Negative with me activation, negati metabolic activation Negative without	ve without ion	Equivalent to C		Bacteria (S	.typhimurium)	Enect	Experimer	ntal value

Result Negative with metabolic activation, negative without metabolic activation Negative with metabolic activation, negative without metabolic activation Negative with metabolic activation Negative with metabolic activation Regative with metabolic activation Occupative with metabolic activation metabolic activation, negative without metabolic activation Regative with metabolic activation Negative with metabolic activation Negative with metabolic activation Result Negative Negative Negative Negative Negative Negative Negative Negative Negative Not classified for mutagenic of the mixture activation is based on the realcium oxide	, negative without activation with metabolic , negative without activation vo) on the mixture availabased on the relevance	nt ingredients ate	ECD 476		Test substrate Chinese hamster lu fibroblasts (V79) Mouse (lymphoma cells) Bacteria (S.typhimu Chinese hamster ov Human lymphocyte	L5178Y irium) vary (CHO)	ect		Read- Read- Read-	e determination eacross eacross eacross
activation, negative withous metabolic activation Negative with metabolic activation Negative with metabolic activation, negative withous metabolic activation Negative with metabolic activation with metabolic activation metabolic activation Negative with metabolic activation with metabolic activation Negative of the mixture activation with metabolic activation Negative	, negative without activation with metabolic , negative without activation vo) on the mixture availabased on the relevance	Equivalent to O OECD 471 Equivalent to O Equivalent to O able nt ingredients ate	ECD 476		fibroblasts (V79) Mouse (lymphoma cells) Bacteria (S.typhimu Chinese hamster ov	L5178Y irium) vary (CHO)			Read-	across
activation, negative withous metabolic activation Negative with metabolic activation, negative withous metabolic activation. Negative with metabolic activation, negative withous metabolic activation. Negative with metabolic activation metabolic activation, negative withous metabolic activation. Negative with metabolic activation metabolic activation in metabolic activation. Negative with metabolic activation metabolic activation. Negative with metabolic activation metabolic activation. Negative with metabolic activation metabolic activation. Negative in vivo Result Negative	, negative without activation with metabolic , negative without activation vo) on the mixture availabased on the relevantediphenyl diisocyana	OECD 471 Equivalent to O Equivalent to O able at ingredients	ECD 479		cells) Bacteria (S.typhimu Chinese hamster ov	vary (CHO)			Read-	across
activation, negative withous metabolic activation Negative with metabolic activation, negative withous metabolic activation Negative with metabolic activation, negative withous metabolic activation metabolic activation enicity (in vivo) construct co (test)data on the mixture addement is based on the rel 4'-methylenediphenyl diisocon metabolic activation Result Negative ropylene carbonate Result Negative vorocarbons, C10-C12, isoalk Result Negative not classified for mutagenic of openicity construct co (test)data on the mixture adassification is based on the relaction on the relaction of	, negative without activation with metabolic , negative without activation with metabolic , negative without activation with metabolic , negative without activation vo) on the mixture availabased on the relevance	Equivalent to O Equivalent to O able at ingredients			Chinese hamster ov	vary (CHO)	3			
Negative with metabolic activation, negative without metabolic activation Negative with metabolic activation, negative without metabolic activation, negative without metabolic activation metabolic activation enicity (in vivo) construct o (test)data on the mixture addgement is based on the releast metabolic activation Result Negative ropylene carbonate Result Negative vdrocarbons, C10-C12, isoalk Result Negative Negative not classified for mutagenic or openicity construct o (test)data on the mixture adassification is based on the relection model	with metabolic , negative without activation with metabolic , negative without activation vo) on the mixture availa based on the relevan ediphenyl diisocyana	Equivalent to O able nt ingredients ate					4		Read-	across
Negative with metabolic activation, negative without metabolic activation. enicity (in vivo) construct o (test)data on the mixture activation of the second of the relevant of the second of t	with metabolic , negative without activation vo) on the mixture availabased on the relevare	able nt ingredients ate	ECD 473		Human lymphocyte	es es			l l	
enicity (in vivo) construct co (test)data on the mixture and gement is based on the rel 4'-methylenediphenyl diisoco Result Negative ropylene carbonate Result Negative vdrocarbons, C10-C12, isoalk Result Negative Negative occupative not classified for mutagenic of the properties of the classification is based on the relacium oxide	on the mixture availabased on the relevared in the relevance diphenyl diisocyana	nt ingredients ate							Read-	across
onstruct o (test)data on the mixture adgement is based on the rel 4-methylenediphenyl diisoc Result Negative ropylene carbonate Result Negative vdrocarbons, C10-C12, isoalk Result Negative Negative ot classified for mutagenic or openicity onstruct o (test)data on the mixture alassification is based on the relacium oxide	on the mixture availabased on the relevan	nt ingredients ate								
A'-methylenediphenyl diisoc Result Negative ropylene carbonate Result Negative ydrocarbons, C10-C12, isoalk Result Negative Negative Negative nclusion lot classified for mutagenic or ogenicity onstruct lo (test)data on the mixture alassification is based on the realcium oxide	ediphenyl diisocy <mark>ana</mark>	<u>ate</u>								
Negative ropylene carbonate Result Negative ydrocarbons, C10-C12, isoalk Result Negative Negative Negative oclusion ot classified for mutagenic occupenicity onstruct o (test)data on the mixture alassification is based on the realcium oxide										
Result Negative Verocarbons, C10-C12, isoalk Result Negative Negative Negative Negative Negative Negative oclusion ot classified for mutagenic or pogenicity onstruct or (test)data on the mixture alassification is based on the realcium oxide		Method		Expos	sure time	Test substrate		Organ		Value determina
Result Negative ydrocarbons, C10-C12, isoalk Result Negative Negative nclusion ot classified for mutagenic or ogenicity onstruct o (test)data on the mixture a lassification is based on the realcium oxide		OECD 4	74	3 wee	eks (1h / day, 1 day ek)	Rat (male)				Experimental val
Negative ydrocarbons, C10-C12, isoalk Result Negative Negative nclusion lot classified for mutagenic or openicity onstruct lo (test)data on the mixture a classification is based on the realcium oxide	<u>bonate</u>	Method		Expos	sure time	Test substrate		Organ		Value determina
Result Negative Negative Negative occlusion lot classified for mutagenic occuped by the second by th		Equivale	ent to OECD			Mouse (male /		J. guii		Experimental va
Negative Negative nclusion ot classified for mutagenic of openicity onstruct o (test)data on the mixture alassification is based on the relicium oxide	, C10-C12, isoalkane							_		
nclusion ot classified for mutagenic or ogenicity onstruct o (test)data on the mixture a lassification is based on the r alcium oxide		Method Equivale	ent to OECD	Expos	sure time	Test substrate Mouse (male /		Organ Bone marr	ow	Value determina Read-across
nclusion ot classified for mutagenic or ogenicity onstruct o (test)data on the mixture a lassification is based on the r alcium oxide		474 Equivale	ent to OECD	5 day	rs (6h / day)	Rat (male / fen	nala)			Read-across
lot classified for mutagenic of ogenicity onstruct lo (test)data on the mixture a lassification is based on the ralcium oxide		478	int to occi	3 day	3 (on y day)	nat (male / Ten	iaicj			ricua across
Route of Parameter	is based on the relev		Value		Exposure time	Species	Effect		Organ	Value
exposure									Ů	determina
Oral (drinking NOAEL water)	ting NOAEL	Not determined	279.5 mg/kg bw/day		104 week(s)	Rat (male)	No car effect	cinogenic		Read-acros
Oral (drinking NOAEL water)		Not determined	296.4 mg/kg bw/day		104 week(s)	Rat (female)	No car effect	cinogenic		Read-acros
,4'-methylenediphenyl diisoc Route of Parameter		Method	Value		Exposure time	Species	Effect		Organ	Value determina
exposure	NOAEC	Other	0.7 mg/m³ ai		104 weeks (17h / day, 5 days / week)	Rat (female)	No car effect	cinogenic		Experimen value
exposure					\					
exposure Inhalation NOAEC (aerosol) ropylene carbonate	Parameter N	Vlethod	Value		Exposure time	Species	Effect		Organ	Value determina
exposure Inhalation NOAEC (aerosol) ropylene carbonate		DECD 451			104 weeks (2 times week)	/ Mouse (male	e) No car effect	cinogenic		Experimen value

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exposure Inhalation No (vapours)	:12, isoalka Irameter	nes. < 2% aro								
Route of exposure Inhalation (vapours) Inhalation NO			matics							
(vapours) Inhalation NO		Method	Value	E	Exposure	e time	Species	Effect	Organ	Value determinati
	DAEC	Equivalent to OECD 453	0 ≥ 2200 r		105 wee 5 days / v	ks (6h / day, I week)	Rat (female)	No effect		Read-across
	DAEC	Equivalent to OECD 453	o 138 mg,		105 wee 5 days / v	ks (6h / day, I week)	Rat (male)	No effect		Read-across
Inhalation NO (vapours)	DAEC	Equivalent to OECD 453	o ≥ 2200 r		105 wee 5 days / v		Mouse (male)	No effect		Read-across
Inhalation NO (vapours)	DAEC	Equivalent to OECD 453	0 ≥ 1100 r		105 wee 5 days / v		Mouse (female)	No effect		Read-across
	henyl isoc irameter	Method	Value	E	Exposure	e time	Species	Effect	Organ	Value
e xposur e Unknown			categor	v 2						determinati Literature st
onclusion Suspected of causing oductive toxicity Construct No (test)data on the Judgement is based of	mixture av		nts							
calcium oxide		arameter	Method	Value		Exposure tim	e Species	Effect	Organ	Value
						•	·			determinati
Developmental t	,	OAEL	Equivalent to OECD 414	680 mg/ bw/day	/kg	10 day(s)	Rat (female)	No effect		Experimenta value
4,4'-methylenediphe		anate arameter	Method	Value		Exposure tim	e Species	Effect	Organ	Value
Developmental t		OAEL	OECD 414	3 mg/m ³		10 days (6h /	·	No effect		determinati Experimenta
	LC	DAEL	OECD 414	9 mg/m³		day) 10 days (6h /	Rat (female)	Embryoto	oxicity	value Experimenta
Maternal toxicity	, NO	OAEL	OECD 414	4 mg/kg	Ī	day) 10 day(s)	Rat (female)	No effect		value Read-across
Effects on fertility	v			bw/day						Data waiving
propylene carbonate										. Data warring
	Pa	arameter	Method	Value		Exposure tim	e Species	Effect	Organ	Value determinati
Developmental to	oxicity N	OAEL	Equivalent to OECD 414	1000 mg	_	10 day(s)	Rat	No effect		Experimenta value
Maternal toxicity	, NO	OAEL	Equivalent to OECD 414	> 5000 n bw/day		10 day(s)	Rat	No effect		Experimenta value
Effects on fertility		OAEL	Fertility Assessment	10100 m bw/day	ng/kg		Mouse (male female)	No effect		Read-across
hydrocarbons, C10-C		ines, < 2% aroi arameter	matics Method	Value		Exposure tim	e Species	Effect	Organ	Value determinati
Developmental t	oxicity N	OAEL	Equivalent to OECD 414	≥ 5220 n air	O,	10 days (6h / day)	Rat (male / female)	No effect		Experimenta value
Maternal toxicity		OAEL	OECD 414	≥ 5220 n air		10 days (6h / day)		No effect		Experimenta value
Effects on fertility	y N	OAEC (P/F1)	Equivalent to OECD 421	≥ 300 pp		8 weeks (6h / day, 5 days / week)	Rat (male / female)	No effect		Experimenta value

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PU Construct

Skin rash/inflammation. Respiratory difficulties.

SECTION 12: Ecological information

12.1. Toxicity

PU Construct

No (test)data on the mixture available

Judgement is based on the relevant ingredients

calcium oxide

		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	Equivalent to OECD 203	≥ 1070 mg/l	96 h	Cyprinus carpio	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea		EC50	EPA OPP 72-2	≥ 159.6 mg/l	24 h	Crustacea	Static system	Fresh water	Experimental value; Lethal
Toxicity algae and other aqua plants	tic	EC50	OECD 201	184.57 mg/l	72 h	Pseudokirchneriel la subcapitata	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity fish									Data waiving
Long-term toxicity aquatic crustacea		NOEC		32 mg/l	14 day(s)		Semi-static system	Salt water	Read-across
Toxicity aquatic micro- organisms		EC50	OECD 209	300.4 mg/l	3 h	Activated sludge	Static system	Fresh water	Read-across; GLP

4,4'-methylenediphenyl diisocyanate

	F	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	L	. C50	OECD 203	> 1000 mg/l	96 h	Danio rerio	Static system	Fresh water	Read-across; Nominal concentration
Acute toxicity crustacea	E	EC50	OECD 202	129.7 mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across; Locomotor effect
Toxicity algae and other aquat plants	ic E	EC50	OECD 201	> 1640 mg/l		Desmodesmus subspicatus	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity aquatic crustacea	1	NOEC	OECD 211	≥ 10 mg/l	21 day(s)		Semi-static system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro- organisms	E	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Read-across; Nominal concentration

propylene carbonate

Acute toxicity crustacea EC50 > 1000 mg/l 48 h Daphnia magna GLP Toxicity algae and other aquatic EC50 > 900 mg/l 72 h Scenedesmus Biomass		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Toxicity algae and other aquatic EC50 > 900 mg/l 72 h Scenedesmus Biomass	Acute toxicity fishes	LC50		<mark>5300</mark> mg/l	96 h	Leuciscus idus	Static system		
3.7.5	Acute toxicity crustacea	EC50		> 1000 mg/l	48 h	Daphnia magna			GLP
	Toxicity algae and other aquatic plants	EC50		> 900 mg/l		Scenedesmus subspicatus			Biomass

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LL50	OECD 203	> 1000 mg/l			Semi-static system		Experimental value; GLP
Acute toxicity crustacea		EL50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system		Experimental value; GLP
Toxicity algae and other aquat plants	ic	EL50	OECD 201	> 1000 mg/l		Pseudokirchneriel la subcapitata	Static system		Experimental value; GLP
		NOELR	OECD 201	1000 mg/l		Pseudokirchneriel la subcapitata	Static system		Experimental value; GLP
Long-term toxicity fish		NOELR		0.192 mg/l	, , ,	Oncorhynchus mykiss		Fresh water	QSAR; Growth rate
Long-term toxicity aquatic crustacea		NOELR	OECD 211	< 1 mg/l	21 day(s)		Semi-static system		Experimental value; GLP

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	Parame	eter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determina
Acute toxicity other aquatic organisms	LC50			> 1000 mg/l	96 h				Literature study
Toxicity aquatic micro- organisms	EC50		OECD 209	> 100 mg/l		Activated sludge			Literature study
clusion ot classified as dangerous for 2. Persistence and deg 4'-methylenediphenyl diisocy	radability		ccording to t	he criteria of F	Regulation (EC)	No 1272/2008			
Biodegradation water Method	<u>arrate</u>	i,	M-L		ļn	W	h.		-41
OECD 302C: Inherent Biode	gradahility.		Value 0 %		Dura 28 da			alue determin ead-across	ation
Modified MITI Test (II)	.gradability.		0 70		20 00	19(3)		caa across	
hototransformation air (DT	50 air)								
Method			Value		Conc	. OH-radicals		alue determin	ation
AOPWIN v1.92 Half-life water (t1/2 water)			0.92 day(s)				μ	SAR	
Method			Value		Prima	ary		alue determin	ation
					degra	adation/mineralisat	tion		
			20 h				Re	ead-across	
opylene carbonate Biodegradation water									
Method			Value		Dura	tion	V	alue determin	ation
OECD 301A: DOC Die-Away	Test		98 %		28 da	ny(s)	E	perimental va	lue
drocarbons, C10-C12, isoalka	anes, < 2% a	romatio	CS .						
Biodegradation water Method		ı	Value		Dura	tion	V	alue determin	ation
Equivalent or similar to OEG	CD 301F		31.3 %		28 da			perimental va	
lymethylene polyphenyl isoc						7(-)			
Biodegradation water									
			17-1		Ρ	M	h /		- 4.1
Method	aradahilit.		Value		Dura	tion		alue determin	
OECD 302C: Inherent Biode Modified MITI Test (II)			< 60 %		Dura	tion		alue determin operimental va	
OECD 302C: Inherent Biode Modified MITI Test (II) clusion intains non readily biodegrad 3. Bioaccumulative poinstruct Kow	lable compo		< 60 %	Value	Dura	Temperature	E		lue
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Intains non readily biodegrad 3. Bioaccumulative poinstruct Kow ethod	dable compo	onent(s)	< 60 %	Value	Dura		E	xperimental va	lue
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Intains non readily biodegrad 3. Bioaccumulative poinstruct Kow ethod	lable compo tential Remark	onent(s)	< 60 %	Value	Dura		E	xperimental va	lue
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Intains non readily biodegrace 3. Bioaccumulative poinstruct Kow Icium oxide 13CF other aquatic organisms	tential Remark Not applica	onent(s)	< 60 %	Value		Temperature	E	vperimental va	ination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrac 3. Bioaccumulative poinstruct Kow ethod	lable compo tential Remark Not applica	onent(s)	xture)	Value Duration			E	Value determ	ination determination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Intains non readily biodegract S. Bioaccumulative pointstruct Kow Internation	lable compo tential Remark Not applica	pnent(s)	xture)			Temperature	E	vperimental va	ination determination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Intains non readily biodegrac 3. Bioaccumulative poinstruct Kow ethod clum oxide 3CF other aquatic organisms	lable compo tential Remark Not applica	onent(s)	xture)			Temperature	E	Value determ Value o	ination determination aiving
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Intains non readily biodegrac 3. Bioaccumulative poinstruct Kow ethod clum oxide 3CF other aquatic organisms Parameter Metho Log Kow	lable compo tential Remark Not applica	onent(s)	xture)	Duration		Temperature cies	E	Value determ Value o	ination determination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrace 3. Bioaccumulative pointstruct Kow ethod clum oxide BCF other aquatic organisms Parameter Metho Method 1-methylenediphenyl diisocy	Remark Not applica	onent(s)	xture)	Duration		Temperature cies	E	Value determ Value o	ination determination aiving
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrac 3. Bioaccumulative poesistruct Kow ethod clum oxide 3CF other aquatic organisms Parameter Metho Method 4'-methylenediphenyl diisocy 3CF fishes	Remark Not applica Remark No data vanate	bonent(s) Walue	xture)	Duration Value	Spe	Temperature cies Temperature	E	Value determ Value o Data w	ination determination aiving ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrace 3. Bioaccumulative pointstruct Kow ethod clum oxide BCF other aquatic organisms Parameter Method 1-methylenediphenyl diisocy BCF fishes Parameter Metho	Remark Not applica Remark No data Remark	value Value Value	xture)	Duration Value Duration	Spe	Temperature cies Temperature	E	Value determ Value o Data w Value dete	ination determination aiving ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative poinstruct Kow ethod clium oxide BCF other aquatic organisms Parameter Method 1'-methylenediphenyl diisocy BCF fishes Parameter Metho BCF OECD 3	Remark Not applica Remark No data Remark	value Value Value	xture)	Duration Value	Spe	Temperature cies Temperature	E	Value determ Value o Data w Value dete	ination determination aiving ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative pointruct Kow ethod clium oxide BCF other aquatic organisms Parameter Method 1'-methylenediphenyl diisocy BCF fishes Parameter Metho BCF OECD 3 .og Kow Method	Remark Not applica Remark No data Remark	value Value 92 - 20	xture)	Duration Value Duration 4 week(s) Value	Spe	Temperature cies Temperature cies rinus carpio	E	Value determ Value o Data w Value determ Value determ Value determ	ination determination aiving ermination determination mental value ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative pointstruct Kow ethod clium oxide BCF other aquatic organisms Parameter Method 1'-methylenediphenyl diisocy BCF fishes Parameter Metho BCF OECD 3 cog Kow Method OECD 117	Remark Not applica Remark No data vanate d d 305	value Value 92 - 20	xture)	Duration Value Duration 4 week(s)	Spe	Temperature cies Temperature cies rinus carpio	E	Value determ Value o Data w Value determ Value determ	ination determination aiving ermination determination mental value ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative pointstruct Kow ethod clium oxide BCF other aquatic organisms Parameter Method 4'-methylenediphenyl diisocy BCF fishes Parameter Metho BCF OECD 3 cog Kow Method OECD 117 opylene carbonate	Remark Not applica Remark No data vanate d d 305	value Value 92 - 20	xture)	Duration Value Duration 4 week(s) Value	Spe	Temperature cies Temperature cies rinus carpio	E	Value determ Value o Data w Value determ Value determ Value determ	ination determination aiving ermination determination mental value ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative pointstruct Kow ethod clum oxide Clum oxide Cog Kow Method 1'-methylenediphenyl diisocy Cog Kow Method Cog Kow Method DECD 3000000000000000000000000000000000000	Remark Not applica Remark No data vanate d Remark	value Value 92 - 20	xture)	Duration Value Duration 4 week(s) Value	Spe	Temperature Temperature Temperature Temperature Temperature 22 °C	E)	Value determ Value o Data w Value determ Value determ Value determ	ination determination aiving ermination determination mental value ermination
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative pointstruct Kow ethod clium oxide BCF other aquatic organisms Parameter Method 4'-methylenediphenyl diisocy BCF fishes Parameter Metho BCF OECD 3 cog Kow Method OECD 117 opylene carbonate	Remark Not applica Remark No data vanate d d 305	value Value 92 - 20	xture)	Duration Value Duration 4 week(s) Value 4.51	Spe Spe Cyp	Temperature Cies Temperature Cies Ties Ties	E)	Value determ Value o Data w Value determ Value determ Value determ	ination determination aiving ermination determination mental value ermination ital value
OECD 302C: Inherent Biode Modified MITI Test (II) clusion Initialis non readily biodegrad 3. Bioaccumulative pointstruct Kow ethod clum oxide Clum oxide Cog Kow Method 1'-methylenediphenyl diisocy Cog Kow Method Cog Kow Method DECD 3000000000000000000000000000000000000	Remark Not applica Remark No data vanate d Remark	value Value 92 - 20	xture)	Duration Value Duration 4 week(s) Value 4.51	Spe Spe Cyp	Temperature Temperature Temperature Temperature Temperature 22 °C	E)	Value determ Value o Data w Value determ Value determ Value determ Value determ Experiment	ination determination aiving ermination determination mental value ermination ital value

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hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.00	144.3 l/kg - 962.9 l/kg		Pisces	Calculated value

Log Kow

Method	Remark	Value	Temperature	Value determination
		<mark>5.25</mark> - 7.22		Estimated value

polymethylene polyphenyl isocyanate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		1		Pisces	Literature study

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 m³/mol		25 °C		Estimated value

hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	46.9 %	0 %	36 %	14 %	3.1 %	Calculated value

Conclusion

Contains component(s) with potential for mobility in the soil

Contains component(s) that adsorb(s) into the soil

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 Construct

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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)

polymethylene polyphenyl isocyanate

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

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

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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

Recycle/reuse. 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

European Union

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

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

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SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.	1. UN number			
	Transport		Not subject	
14.	2. UN proper shipping nar	me		
14.	Transport hazard class	es)		
	Hazard identification nun	nber		
	Class			
	Classification code			
14.	4. Packing group		_	
	Packing group			
	Labels			
14.	5. Environmental hazards			
	Environmentally hazardo	us substance mark	no	
14.	6. Special precautions for	user		
	Special provisions			
	Limited quantities			
14.	7. Transport in bulk accord	ding to Annex II of Marpol and the IBC Co	ode	
	Annex II of MARPOL 73/7	78	Not applicable, based on ava	ilable data

SECTION 15: Regulatory information

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

European legislation:

Revision number: 0000

VOC content Directive 2010/75/EU

VOC content		Remark	
2.32 % - 2.54 %			
34.09 g/l - 37.26 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.

Designation of the substance, or the group of substances or of the mixture Input carbonate supprisonates propylene carbonate supprisonates polymethylene polyphenyl isocyanate EQ No. 127, 2008 EQ No. 1277, 2008 EQ No. 1	use of certain dangerou	is subst	ances, mixtures and articles.			
Image: Comparison of the com			Designation of the substance, of the	group of	Conditions of restriction	
criteria for any of the following hazard classes aromatics polymethylene polyphenyl isocyanate polymethylene polyphenyl isocyanate (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 ypes A and 8, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 2.15 to yes, 2.5 ypes A and 8, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.14 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to 5, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3, 9 and 3.10, (c) hazard classes 3.1 to 3.4, 3.6 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3, 9 and 3.10, (c) hazard class 4.1; (d) hazard class 5.1. (b) hazard class 5.1. (c) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h) ha			substances or of the mixture			
criteria for any of the following hazard classes aromatics polymethylene polyphenyl isocyanate polymethylene polyphenyl isocyanate (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 ypes A and 8, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 2.15 to yes, 2.5 ypes A and 8, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.14 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to 5, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3, 9 and 3.10, (c) hazard classes 3.1 to 3.4, 3.6 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3, 9 and 3.10, (c) hazard class 4.1; (d) hazard class 5.1. (b) hazard class 5.1. (c) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h) ha	· propylene carbonate		Liquid substances or mixtures fulfilli	ng the	1. Shall not be used in:	
or categories set out in Annex I to Regulation polymethylene polyphenyl isocyanate (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and 8, 2.9, 2.10, 2.12, 2.13 categories and 2, 2.15 types A to 48, 2.9, 2.10, 2.12, 2.13 categories and 2, 2.14 categories 1 and 2, 2.15 types A to f; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects (c) hazard classes 3.1 to 3.6, 3.7 adverse effects (c) hazard classes 3.1 to 3.6, 3.7 adverse effects (c) hazard class 4.1; (d) hazard class 4.1; (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (hazard class 6.1. (hazard c		< 2%	l .	-		
ECJ No 127/2/2008: A parad classes 2.1 to 2.4, 2.6 and 2.7, 2.8 Appear A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to 5,			,		, ,	
a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 yes A and 8.2, 9.2, 2.10, 2.12, 2.13 categories 1 and 2, 2.15 types A to 6.3, 2.7, 2.10, 2.12, 2.13 categories 1 and 2, 2.15 types A to 7; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. (d) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (e) hazard class 6.1; (d) hazard class 6.1; (e) hazard class 6.	· polymethylene polyphenyl isocyana	te	(EC) No 1272/2008:			
ypes A and 8, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 byes A to f; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects of the than narcotic effects, 3.9 and 3.10; (c) c) hazard class 4.1; (d) hazard class 5.1. Without prejudice to the implementation of both class fiction in delibly marked as follows: "Keep and a labelling of dangerous substances and mixtures, supplies shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with 1304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep Jamps filled with this fluid out of the reach of children"; and, by 1 December 2010. "Just a sip of lamps in out to the general public are legibly and indelibly marked as follows: "Keep Jamps filled with this fluid 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 H304, intended for supply to the general public are legibly and indelibly marked as follows: "Seep Jamps filled with this fluid out of the reach of children"; and, by 1 December 2010. "Just a sip of fill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with 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 dossejer, not on a decrease the supplied of the supplied of the commission shall request the European Chemicals Agency to prepare a dossejer, not only a supplied to the commission shall request the European Chemicals Agency to prepare a dossejer, not only a supplied to the commission." Phydrocarbons, C10-C12, Isoalkanes, <2% Substances classified as flammable gases aromatics Substances and mixtures	, , , , , , , , , , , , , , , , , , , ,			2.7. 2.8		
and 2, 2.14 categories 1 and 2, 2.15 types A 0 b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 41; (d) hazard class 5.1. (d) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 41; (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h) h						
s. Shall not be placed on the market if they contain a colouring agent, unless required for (b) hazard classes 3.1 to 3.6, 3.7 adverse effects fiscal reasons, or perfume, or both, if they: on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. d) hazard class 5.1. s) without prejudice to the implementation of other Community provisions relating to the classification, pacing and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marks afollows: "Read and so for which the solid with the						
(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h)			F;			
on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h) haza			(b) hazard classes 3.1 to 3.6, 3.7 adv			
development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (h) hazard class 6.1. (h) hazard hazard hazard and are labelled with 1904, intended for supply to the general public are legibly and indelibly marked as follows: "hazard hazard						
(c) hazard class 4.1; (d) hazard class 5.1. (d) hazard class 5.1. (e) hazard class 5.1. (f) hazard class 5.1. (hazard class 6.1. (hazard clas			development, 3.8 effects other than	narcotic	— present an aspiration hazard and are labelled with H304,	
by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with 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 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 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 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 H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission." bydrocarbons, C10-C12, isoalkanes, < 2% category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids categories 1, 2 or 3, flammable solids categories 1, 2 or 3, flammable liquids categories 1, 2 or 3, flammable with fine to example the substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: -						
S. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with 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 famp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with 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 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 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 H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' 4 hydrocarbons, C10-C12, isoalkanes, <2% aromatics Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable liquids catego			(c) hazard class 4.1;		unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted	
classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with 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 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 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 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 H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' bydrocarbons, C10-C12, isoalkanes, < 2% substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with purposes such as the following: - metallic glitter intended mainly for decoration,			(d) hazard class 5.1.		by the European Committee for Standardisation (CEN).	
ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with His 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 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 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 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 H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' - hydrocarbons, C10-C12, isoalkanes, < 2% aromatics Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with purposes such as the following: — metallic glitter intended mainly for decoration, - metallic glitter intended mainly for decoration,					5. Without prejudice to the implementation of other Community provisions relating to the	
a) lamp oils, labelled with 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, "Ust 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 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 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 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 H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' *hydrocarbons, C10-C12, isoalkanes, < 2% aromatics Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with under the manufacture of the following: —metallic glitter intended mainly for decoration,					classification, packaging and labelling of dangerous substances and mixtures, suppliers shall	
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alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' hydrocarbons, C10-C12, isoalkanes, < 2% substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with metallic glitter intended mainly for decoration,						
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aromatics category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with category 1 or 2, flammable solids category 1 or 2, substances and mixtures which, in contact with						
2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with — metallic glitter intended mainly for decoration,	· hydrocarbons, C10-C12, isoalkanes,	< 2%	Substances classified as flammable §	gases	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol	J
substances and mixtures which, in contact with — metallic glitter intended mainly for decoration,	aromatics		category 1 or 2, flammable liquids ca	ategories 1,	dispensers are intended for supply to the general public for entertainment and decorative	
			2 or 3, flammable solids category 1	or 2,	purposes such as the following:	ı
water, emit flammable gases, category — artificial snow and frost,			substances and mixtures which, in o	ontact with		
			water, emit flammable gases, catego	ory	— artificial snow and frost,	

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• 4,4'-methylenediphenyl diisocyanate • polymethylene polyphenyl isocyanate	1, 2 or 3, pyrophoric liquids category pyrophoric solids category 1, regardle whether they appear in Part 3 of Ann that Regulation or not. Methylenediphenyl diisocyanate (ME including the following specific isome Methylenediphenyl diisocyanate; 2,4 Methylenediphenyl diisocyanate 2,2 Methylenediphenyl diisocyanate	- silly string aerosols, - imitation excrement, - horns for parties, - decorative flakes and foams, - artificial cobwebs, - stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in 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:
National legislation Belgium PU Construct		
No data available		
National legislation The Nether PU Construct	<u>lands</u>	
Waterbezwaarlijkheid	B (4); Algemene Beoordelingsr	methodiek (ABM)
National legislation France PU Construct No data available		
4,4'-methylenediphenyl diis Catégorie cancérogène	ocyanate 4,4'-Diisocyanate de diphénylr	néthane: C2
polymethylene polyphen <mark>yl i</mark>	socyanate	
Catégorie cancérogène	4,4'-Diisocyanate de diphénylr	méthane; C2
National legislation Germany PU Construct		
WGK	1; Verordnung über Anlagen z	um Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
<u>calcium oxide</u>	F- a -	
TA-Luft TRGS900 - Risiko der	5.2.1 Calciumoxid: Y: Risiko der Fruc	htschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchtet	
4,4'-methylenediphenyl diis		
TA-Luft TRGS900 - Risiko der	5.2.5/I	anat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes
Fruchtschädigung		anat; Y; Kisiko der Fruchtschadigung braucht bei Einnaltung des Arbeitsplatzgrenzwertes ertes nicht befürchtet zu werden
Sensibilisierende Stoffe	S	anat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden
Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocya	
propylene carbonate	r a c	
TA-Luft hydrocarbons, C10-C12, isoa	5.2.5 alkanes. < 2% aromatics	
TA-Luft	5.2.5/I	
		Publication date: 2019-03-07
		radication date. 2013-03-07
Povision number 0000		Droduct number: C4544

Revision number: 0000 Product number: 61511 16 / 18

oolymethylene polyphen	yl isocyan	ate and the second seco		
TA-Luft		5.2.5/1		
TRGS900 - Risiko der		4,4'-Methylendiphenyldiisocyanat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes		
Fruchtschädigung		und des biologischen Grenzwertes nicht befürchtet zu werden		
		pMDI (als MDI berechnet); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des		
		biologischen Grenzwertes nicht befürchtet zu werden		
Sensibilisierende Stoffe		4,4'-Methylendiphenyldiisocyanat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden		
	Zielorganen Allergien auslösende			
		pMDI (als MDI berechnet); Sa; Atemwegssensibilisierende Stoffe		
TRGS905 - Krebserzeug	end	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); 2		
TRGS905 - Erbgutverän	dernd	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -		
TRGS905 -		Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -		
Fruchtbarkeitsgefährde	end			
TRGS905 - Fruchtschäd	igend	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -		
Hautresorptive Stoffe		4,4'-Methylendiphenyldiisocyanat; H; Hautresorptiv		
		pMDI (als MDI berechnet); H; Hautresorptiv		

National legislation United Kingdom

PU Construct

No data available

4,4'-methylenediphenyl diisocyanate

Skin Sensitisation	Isocyanates, all (as -NCO) Except methyl isocyanate; Sen
Respiratory sensitisation	Isocyanates, all (as -NCO) Except methyl isocyanate; Sen
polymethylene polyphenyl isocyan	ate
Skin Sensitisation	Isocyanates, all (as -NCO) Except methyl isocyanate; Sen
Respiratory sensitisation	Isocyanates, all (as -NCO) Except methyl isocyanate; Sen

Other relevant data

PU Construct

No data available

4,4'-methylenediphenyl diisocyanate

IARC - classification	3; 4,4'-methylenediphenyl diisocyanate and polymeric 4,4'-methylenediphenyl diisocyanate				
polymethylene polypheny <mark>l isocyanate</mark>					
IARC - classification	3; Polymethylene polyphenyl isocyanate				

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

H411 Toxic to aquatic life with long lasting effects.

(*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake
AOEL Acceptable operator exp

AOEL Acceptable operator exposure level
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level

DNEL Derived No Effect Level

EC50 Effect Concentration 50 %
ErC50 EC50 in terms of reduction of grow

ErC50 EC50 in terms of reduction of growth rate LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %
NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration
OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration

STP Sludge Treatment Process vPvB very Persistent & very Bioaccumulative

Specific concentration limits CLP

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4,4'-methylenediphenyl diis	socyanate	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)
polymethylene polyphenyl	isocyanate	C≥5%	Eye Irrit 2;H319	analogous to Annex VI
		C≥5%	Skin Irrit 2;H315	analogous to Annex VI
		C≥0.1%	Resp Sens 1;H334	analogous to Annex VI
		C≥5%	STOT SE 3;H335	analogous to Annex VI

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. 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 has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted in other countries, where local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such local legislation. 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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