

### SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

### Soudaflex 40 FC

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

1.1 Product identifier:

Product name : Soudaflex 40 FC 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

Construction: sealant

#### 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 **3** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

#### Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **3** +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:

#### 2.1.1 Classification according to Regulation EC No 1272/2008

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

Class	Category	Hazard statements			
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure.			
Eye Irrit.	category 2	H319: Causes serious eye irritation.			
Skin Irrit.	category 2	H315: Causes skin irritation.			
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.			

#### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC R42 - May cause sensitisation by inhalation.

#### 2.2 Label elements:

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



Contains: xylene; 4,4'-methylenediphenyl diisocyanate.

Signal word

H-statements

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation. H315 Causes skin irritation.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves, protective clothing and eye protection/face protection.
P284	Wear respiratory protection.
P260	Do not breathe vapours.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
C   c	

#### 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.

#### Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

#### Labels



Harmful

Contains: xylene; 4,4'-methylenediphenyl diisocyanate.

#### R-phrases

42 May cause sensitisation by inhalation

#### S-phrases

(02) (Keep out of the reach of children)

23 Do not breathe vapour

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

(63) (In case of accident by inhalation: remove casualty to fresh air and keep at rest)

#### Additional recommendations

Contains isocyanates. See information supplied by the manufacturer.

- 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:

#### CLP

Prolonged exposure: danger of damage to health May produce an allergic reaction

#### DSD/DPD

Prolonged exposure: danger of damage to health May produce an allergic reaction

#### SECTION 3: Composition/information on ingredients

#### 3.1 Substances:

Not applicable

#### 3.2 Mixtures:

Name REACH Registration No	CAS No EC No	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
xylene 01-2119488216-32	1330-20-7 215-535-7	Xi; R36/37/38 R10	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	(1)(2)(8)(10)	Constituent

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ethylbenzene		100-41-4	1% <c<20< th=""><th>F; R11</th><th>Flam. Liq. 2; H225</th><th>(1)(2)(6)(10)</th><th>Constituent</th></c<20<>	F; R11	Flam. Liq. 2; H225	(1)(2)(6)(10)	Constituent
01-2119489370-35		202-849-4	%	Xn; R20 - 48/20 - 65	Acute Tox. 4; H332		
					Asp. Tox. 1; H304		
					STOT RE 2; H373		
					Aquatic Chronic 3; H412		
4,4'-methylenediphenyl diisocy	anate	101-68-8	0.1% <c<1< td=""><td>Carc. Cat. 3; R40</td><td>Carc. 2; H351</td><td>(1)(2)(8)(10)</td><td>UVCB</td></c<1<>	Carc. Cat. 3; R40	Carc. 2; H351	(1)(2)(8)(10)	UVCB
01-2119457014-47		202-966-0	%	Xn; R20 - 48/20	Acute Tox. 4; H332		
				Xi; R36/37/38	STOT RE 2; H373		
				R42/43	Eye Irrit. 2; H319		
					STOT SE 3; H335		
					Skin Irrit. 2; H315		
					Resp. Sens. 1; H334		
					Skin Sens. 1; H317		
toluene		108-88-3	0.01% <c≤< td=""><td>F; R11</td><td>Flam. Liq. 2; H225</td><td>(1)(2)(10)</td><td>Constituent</td></c≤<>	F; R11	Flam. Liq. 2; H225	(1)(2)(10)	Constituent
01-2119471310-51		203-625-9	0.1% %	Repr. Cat. 3; R63	Repr. 2; H361d		
				Xn; R48/20 - 65	Asp. Tox. 1; H304		
				Xi; R38	STOT RE 2; H373		
				R67	Skin Irrit. 2; H315		
					STOT SE 3; H336		

- (1) For R-phrases and H-statements in full: see heading 16
- (2) Substance with a Community workplace exposure limit
- (6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data
- (8) Specific concentration limits, see heading 16
- (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures:

#### General

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. 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:

ON CONTINUOUS EXPOS<mark>URE/CONTACT: Headache. Nausea. D</mark>izziness. Narcosis.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

AFTER INGESTION OF HIGH QUANTITIES: Symptoms similar to those listed under inhalation.

#### 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:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, sulphur oxides, carbon monoxide - carbon dioxide).

#### 5.3 Advice for firefighters:

5.3.1 Instructions:

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Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

#### SECTION 6: Accidental release measures

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

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

#### 6.2 Environmental precautions:

Contain leaking substance. Use appropriate containment to avoid environmental contamination.

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

Allow product to solidify and remove it by mechanical means. Clean (treat) contaminated surfaces with acetone. Wash clothing and equipment after handling.

#### 6.4 Reference to other sections:

See heading 13.

#### SECTION 7: Handling and storage

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

#### 7.1 Precautions for safe handling:

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Keep container tightly closed.

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

#### 7.2.1 Safe storage requirements:

Keep out of direct sunlight. Store in a dry area. 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:

Aluminium.

#### 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.

#### The Netherlands

Difenylmethaan-4,4'-diisocyanaat		Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	0.0048 ppm
		Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	0.05 mg/m <sup>3</sup>
		Short time value (Private occupational exposure limit value)	0.02 ppm
		Short time value (Private occupational exposure limit value)	0.21 mg/m <sup>3</sup>
Ethylbenzeen		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	49 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	215 mg/m <sup>3</sup>
		Short time value (Public occupational exposure limit value)	97 ppm
		Short time value (Public occupational exposure limit value)	430 mg/m³
Tolueen		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	39 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	150 mg/m <sup>3</sup>
		Short time value (Public occupational exposure limit value)	100 ppm

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Tolueen	Short time value (Public occupational exposure limit value)	384 mg/m³
Xyleen (o-,m- en p-isome <mark>ren)</mark>	Time-weighted average exposure limit 8 h (Public occupational	48 ppm
	exposure limit value)	
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	210 mg/m³
	Short time value (Public occupational exposure limit value)	100 ppm
	Short time value (Public occupational exposure limit value)	442 mg/m <sup>3</sup>
Ethylbenzene	Time weighted average exposure limit 0 h //adjective essurational	100 nnm
Ethylbenzene	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	100 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	442 mg/m³
	Short time value (Indicative occupational exposure limit value)	200 ppm
	Short time value (Indicative occupational exposure limit value)	884 mg/m³
Toluene	Time-weighted average exposure limit 8 h (Indicative occupational	50 ppm
	exposure limit value) Time-weighted average exposure limit 8 h (Indicative occupational	192 mg/m³
	exposure limit value)	100
	Short time value (Indicative occupational exposure limit value)	100 ppm
	Short time value (Indicative occupational exposure limit value)	384 mg/m³
Xylene, mixed isomers, pu <mark>re</mark>	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	50 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	221 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value)	100 ppm
	Short time value (Indicative occupational exposure limit value)	442 mg/m <sup>3</sup>
		3,
Belgium	The state of the s	0.005
4,4'-Diisocyanate de diphénylméthane (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm
Eth. Heav. New	Time-weighted average exposure limit 8 h	0.052 mg/m³
Ethylbenzène	Time-weighted average exposure limit 8 h	100 ppm
	Time-weighted average exposure limit 8 h	442 mg/m³
	Short time value	125 ppm
	Short time value	551 mg/m <sup>3</sup>
Toluène	Time-weighted average exposure limit 8 h	20 ppm
	Time-weighted average exposure limit 8 h	77 mg/m <sup>3</sup>
	Short time value	100 ppm
	Short time value	384 mg/m³
Xylène, isomères mixtes, purs	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	221 mg/m³
	Short time value	100 ppm
	Short time value	442 mg/m <sup>3</sup>
USA (TLV-ACGIH)		
Ethyl benzene	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	20 ppm
Methylene bisphenyl isocyanate (MDI)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.005 ppm
Toluene	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	20 ppm
Xylene (all isomers)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	100 ppm
- 1, (dir 150111615)	Short time value (TLV - Adopted Value)	150 ppm
	and came to act (121 ) respect value)	200 pp
Germany		
4,4'-Methylendiphenyldi <mark>isocyanat</mark>	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m <sup>3</sup>
Ethylbenzol	Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	88 mg/m³
Toluol	Time-weighted average exposure limit 8 h (TRGS 900)	50 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	190 mg/m³
Xylol (alle Isomeren)	Time-weighted average exposure limit 8 h (TRGS 900)	100 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	440 mg/m³
Franco		
France 4,4'-Diisocyanate de diph <mark>énylméthane</mark>	Time-weighted average exposure limit 8 h (VL: Valeur non	0.01 ppm
	réglementaire indicative)	
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4,4'-Diisocyanate de diph <mark>énylméthane</mark>		Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m <sup>3</sup>
		Short time value (VL: Valeur non réglementaire indicative)	0.02 ppm
		Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m <sup>3</sup>
Ethylbenzène		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	20 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	88.4 mg/m <sup>3</sup>
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m <sup>3</sup>
oluène		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	20 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	76.8 mg/m <sup>3</sup>
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	384 mg/m³
Xylènes, isomères mixtes, <mark>purs</mark>		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	50 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	221 mg/m <sup>3</sup>
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m³
JK			
thylbenzene		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	441 mg/m <sup>3</sup>
		Short time value (Workplace exposure limit (EH40/2005))	125 ppm
		Short time value (Workplace exposure limit (EH40/2005))	552 mg/m³
socyanates, all (as -NCO)	Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m <sup>3</sup>
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m <sup>3</sup>
oluene		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	50 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	191 mg/m³
		Short 11	100

Short time value (Workplace exposure limit (EH40/2005))

Time-weighted average exposure limit 8 h (Workplace exposure limit

Time-weighted average exposure limit 8 h (Workplace exposure limit

100 ppm

50 ppm

384 mg/m<sup>3</sup>

220 mg/m<sup>3</sup>

100 ppm

441 mg/m<sup>3</sup>

#### b) National biological limit values

Xylene, o-,m-,p- or mixed isomers

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

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

ii applicable and available it will be listed below.	
4,4-Methylene Bispheny <mark>l Isocyanate (MDI) (Isocyanates)</mark>	NIOSH 5521
4,4'-Methylenebis(pheny <mark>lisocyanate)</mark>	NIOSH 5525
Ethyl Benzene (Hydrocar <mark>bons, Aromatic)</mark>	NIOSH 1501
Ethyl Benzene	OSHA 1002
Ethyl Benzene	OSHA 7
Methylene Bisphenyl Iso <mark>cyanate - (MDI)</mark>	OSHA 18
Methylene Bisphenyl Iso <mark>cyanate (MDI)</mark>	OSHA 47
Methylene Bisphenyl Iso <mark>cyanate</mark>	OSHA 33
Toluene (Hydrocarbons, aromatic)	NIOSH 1501
Toluene (organic and inorganic gases by Extractive FTIR)	NIOSH 3800
Toluene (Volatile Organi <mark>c compounds)</mark>	NIOSH 2549
Toluene in blood	NIOSH 8007
Toluene	NIOSH 4000
toluene	NIOSH 8002
Toluene	NIOSH 95-117
Toluene	OSHA 111
Xylene (Hydrocarbons, a <mark>romatic)</mark>	NIOSH 1501
Xylene (Volatile Organic <mark>compounds)</mark>	NIOSH 2549

(EH40/2005))

(EH40/2005))

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vlene Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Acute systemic effects inhalation	289 mg/m³	Roman
	Acute local effects inhalation	289 mg/m³	
	Long-term systemic effects dermal	180 mg/kg bw/day	
	Long-term systemic effects inhalation	77 mg/m³	
thylbenzene Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL DIVIELY	Long-term systemic effects inhalation	77 mg/m³	Remark
	Acute local effects inhalation	293 mg/m³	
	Long-term systemic effects dermal	180 mg/kg bw/day	
,4'-methylenediphenyl diisocyar		h	ls .
Effect level (DNEL/DMEL)  DNEL	Type  Long-term local effects inhalation	Value 0.05 mg/m <sup>3</sup>	Remark
DINEL	Acute local effects inhalation	0.05 mg/m³	
oluene	reace local circles illimitation	0.1 1116/111	
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	192 mg/m³	
	Acute systemic effects inhalation	384 mg/m³	
	Long-term local effects inhalation  Acute local effects inhalation	192 mg/m³ 384 mg/m³	
	Long-term systemic effects dermal	384 mg/m² 384 mg/kg bw/day	
NEL - General population	Long-term systemic effects definal	364 mg/kg bw/uay	
<u>ylene</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Acute systemic effects inhalation	174 mg/m³	
	Acute local effects inhalation	174 mg/m³	
	Long-term systemic effects dermal Long-term systemic effects inhalation	108 mg/kg bw/day 14.8 mg/m³	
	Long-term systemic effects oral	1.6 mg/kg bw/day	
thylbenzene		3, 6 - 1 - 1	II.
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	15 mg/m³	
	Long-term systemic effects oral	1.6 mg/kg bw/day	
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.025 mg/m³	
	Acute systemic effects inhalation	0.05 mg/m <sup>3</sup>	
oluene	Fr	hrataa	D
Effect level (DNEL/DMEL)  DNEL	Type Long-term systemic effects inhalation	Value 56.5 mg/m³	Remark
DIVLE	Acute systemic effects inhalation	226 mg/m³	
	Long-term local effects inhalation	56.5 mg/m³	
	Acute local effects inhalation	226 mg/m³	
	Long-term systemic effects dermal	226 mg/kg bw/day	
NEC	Long-term systemic effects oral	8.13 mg/kg bw/day	
NEC ylene			
Compartments	Value	Remark	
Fresh water	0.327 mg/l		
Marine water	0.327 mg/l		
Aqua (intermittent rele <mark>ases)</mark>	0.327 mg/l		
STP Fresh water sediment	6.58 mg/l		
Marine water sediment	12.46 mg/kg sediment dw 12.46 mg/kg sediment dw		
Soil	2.31 mg/kg soil dw		

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ethylbenzene		
Compartments	Value	Remark
Fresh water	<mark>0.1 mg/l</mark>	
Marine water	<mark>0.01 mg</mark> /l	
Aqua (intermittent rele <mark>ases)</mark>	<mark>0.1 mg/l</mark>	
STP	9.6 mg/l	
Fresh water sediment	13.7 mg/kg sediment dw	
Soil	2.68 mg/kg soil dw	
Oral	<mark>0.02 g/kg</mark> food	

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	

<u>toluene</u>

Compartments	Value	Remark
Fresh water	<mark>0.68 mg/l</mark>	
Marine water	<mark>0.68 mg/l</mark>	
Aqua (intermittent rele <mark>ases)</mark>	<mark>0.68 mg</mark> /l	
STP	<mark>13.61 m</mark> g/l	
Fresh water sediment	16.39 mg/kg sediment dw	
Marine water sediment	16.39 mg/kg sediment dw	
Soil	<mark>2.89 mg/</mark> kg soil dw	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

#### 8.2 Exposure controls:

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

#### 8.2.1 Appropriate engineering controls

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

#### 8.2.2 Individual protection measures, such as personal protective equipment

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

#### a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

#### c) Eye protection:

Safety glasses.

### d) Skin protection:

Protective clothing.

#### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

### SECTION 9: Physical and chemical properties

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

Physical form	\	/iscous
Odour	S	Solvent-like odour
Odour threshold	N	No data available
Colour	N	<mark>/ariable in col</mark> our, depending on the composition
Particle size	N	No data available
Explosion limits	N	No data available
Flammability	N	Non combustible
Log Kow	N	Not applicable (mixture)
Dynamic viscosity	N	No data available
Kinematic viscosity	N	No data available
Melting point	N	No data available
Boiling point	N	No data available
Flash point	N	Not applicable
Evaporation rate	N	No data available
Relative vapour density		>1
Vapour pressure	N	No data available
Solubility	V	water ; insoluble
	C	organic solvents ; soluble

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Relative density	1.3
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

#### 9.2 Other information:

Absolute density 1300kg/m³

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity:

No data available.

#### 10.2 Chemical stability:

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions:

No data available.

#### 10.4 Conditions to avoid:

Keep away from naked flames/heat.

#### 10.5 Incompatible materials:

No data available.

#### 10.6 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, sulphur oxides, carbon monoxide - carbon dioxide).

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects:

11.1.1 Test results

#### Acute toxicity

### Soudaflex 40 FC

No (test)data on the mixture available

<u>xylene</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 401	3523mg/kg bw		Rat (male)	Experimental value	
Oral	LD50	OECD 401	> 4000mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 4200mg/kg bw	4 h	Rabbit (male)	Experimental value	
Inhalation	LC50	OECD 403	27.57mg/l	4 h	Rat (male)	Experimental value	

ethylbenzene

<u>iyiberizerie</u>						,	
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral (one dose)	LD50		3500mg/kg		Rat (male/female)	Experimental value	
Dermal	LD50	Other	15432mg/kg	24 h	Rabbit (male)	Experimental value	
Inhalation	LC50	Other	4000ppm	4 h	Rat (male)	Literature study	

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parai	meter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50		Equivalent to OECD 401	> 7616mg/kg		Rat (female)	Read-across	
Dermal	LD50		Equivalent to OECD 402	> 9400mg/kg bw		Rabbit (male/female)	Read-across	
	us	utaneo rption	EPA OPPTS 870.7600	0.9%	8 h	Rat (male)	Experimental value	
Inhalation (aerosol)	LC50		OECD 403	> 2.24mg/l	1 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50		Equivalent to OECD 403	0.49mg/l air	4 h	Rat (male/female)	Read-across	

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
Oral (one dose)	LD50	Equivalent to OECD	5580mg/kg bw		Rat (male)	determination Experimental value	
Oral (one dose)		401	5580Hg/kg bw		nat (male)	Experimental value	
Dermal		Other	> 5000mg/kg bw		Rabbit (male)	Experimental value	
Inhalation (vapours		Equivalent to OECD	25.7mg/l air	4 h	Rat (male)	Experimental value	
Ludgement is based on		403 gredients					
Skin Inhalation (vapours) thylbenzene	Result  Moderately irritating  Moderately irritating  Irritating  Irritating  Irritating; STOT cat.3	Method OECD 405 SE	Exposure time  4 h  4 h	24; 48; 72 hours 24; 72 hours	Species  Rabbit  Rabbit  Human	Value determination Experimental valu Experimental valu Literature study	ie
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
	Slightly i <mark>rritating</mark>			7 days	Rabbit	Experimental valu	-
	Moderately	Other	24 h		Rabbit	Experimental valu	ıe
<u>ا</u> 4'-methylenedipheny,	irritating /l diisocvanate						
Route of exposure		Method	Exposure time	Time point	Species	Value	Remark
•						determination	
	Slightly irritating	3			Rabbit	Experimental valu	
<u> </u>	Irritating	2-22 124		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Human	Weight of evidence	ce
	Irritating Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
	Irritating Irritating				Human Human	Weight of evidend Weight of evidend	
innaiation l oluene	Irritating				Пинан	Weight of evident	æ
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental valu	ie Single treat
Skin	Irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental valu	ie
classification is based of nclusion Causes skin irritation. Causes serious eye irritatiot classified as irritation Catory or skin sensitisa Catory or skin sensitisa Catory of the middle data on the middle	ation. ng to th <mark>e respir</mark> a <b>tion</b> ixture available	ratory system					
Route of exposure R		Method	Exposure time	Observation time point		Value determination	n Remark
	Not sensitizing	OECD 429			Mouse	Experimental value	
Route of exposure R	esult	Method	Exposure time	Observation time	Species	Value determination	Remark
Skin N	Not sens <mark>itizing</mark>	Other		point	Human	Inconclusive, insufficient data	
						prisurrene re data	

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Route of exposure R		Method	Exposi	ıre time	Observation time	Species \	/alue determination	Remark
Route of exposure R	Count	IVICTIOU	Expost	a c unic	point	Openes (	raide determination	KCIII AI K
Skin S	ensitizi <mark>ng</mark>					L	iterature study	
Skin S	ensitizi <mark>ng</mark>	OECD 429				Mouse E	xperimental value	
-	ensitizi <mark>ng</mark>					· · · · · · · · · · · · · · · · · · ·	xperimental value	
Inhalation S	ensitizin <mark>g</mark>					Guinea pig (female)	xperimental value	
oluene		B 4 - 411	ļe		lot	hh	/-l	D
Route of exposure R		Method		ıre time	point	,	/alue determination	Remark
	lot sens <mark>itizin</mark> g	406	O OECD 72 h		24; 48 hours	Guinea pig (female)	xperimental value	
Classification is based o	in the relevar	nt ingredients						
<u>nclusion</u> Not classified as sensiti	zing for skip							
Not classified as serisiti Nay cause allergy or as		oms or breathing	difficulties if in	naled				
viay cause unergy or as	tillia sympte	onis or breathing	, anneances in ini	luicu.				
ic target organ toxicity	y							
J-fl 40 FC								
daflex 40 FC (test)data on the mix	ture available	2						
ylene	.are available	•		_				
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
				J.				determina
Oral	LOAEL	Equivalent to	150mg/kg	Liver	Weight gain	90 day(s)	Rat	Experiment
		OECD 408	bw/day				(male/female)	value
Oral	NOAEL	Other	250mg/kg	1	No effect	13 weeks (6h/da		Experiment
Inhalation	NOAEC	Subchronia	bw/day ≥ 3515mg/m³	- 4	No effect	days/week) 13 weeks (6h/da	(male/female)	value
(vapours)	INUAEC	Subchronic toxicity test	≥ 2212IIIG/III		ivo enect	days/week)	y, 5 Rat (male)	Experiment value
thylbenzene		toxicity test				uays, week,		value
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determina
Oral	NOAEL	OECD 407	75mg/kg	Liver	Enlargement/a	iff 28 day(s)	Rat	Experimen
			bw/day		ection of the		(male/female)	value
					liver			
Oral	NOAEL	OECD 408	75mg/kg	Liver	Enlargement/a	iff 13 week(s)	Rat	Experiment
			bw/day		ection of the liver		(male/female)	value
Oral	LOAEL	OECD 408	250mg/kg	Liver	Enlargement/a	off 13 week(s)	Rat	Experiment
Orai	LOALL	0160 400	bw/day	Livei	ection of the	m 15 week(3)	(male/female)	value
					liver		, ,	
Oral	NOAEL	Equivalent to	500mg/kg		No effect	90 day(s)	Rat	Experiment
La la a la est	10450	OECD 424	bw/day		N	101	(male/female)	value
Inhalation (vapours)	LOAEC	Equivalent to OECD 453	75ppm		No effect	104 weeks (6h/dadays/week)	ay, 5 Rat (male/female)	Experiment value
Inhalation	NOAEL	Equivalent to	1000ppm		No effect	13 weeks (6h/da		Experiment
		OECD 413				days/week)	(male/female)	value
Inhalation	NOAEC	OECD 412	800ppm	Liver		4 weeks (6h/day,	5 Mouse	Experiment
						days/week)	(male/female)	value
Inhalation	NOAEC	OECD 412	800ppm	Liver		off 4 weeks (6h/day,		Experiment
					ection of the liver	days/week)	(male/female)	value
	diisocyanat			1	livei			
/I'-methylenedinhony	i unoccyanali	Method	Value	Organ	Effect	Exposure time	Species	Value
	Parameter			J. J			SP 30103	determina
Route of exposure	Parameter	ivietriou						
		Other	0.23mg/m³ air	Lungs	Lung tissue	<= 104 weeks	Rat (female)	
Route of exposure				Lungs	affection/dege	n (17h/day, 5	Rat (female)	value
Route of exposure				Lungs			Rat (female)	
Route of exposure Inhalation (aerosol)	LOAEC	Other	0.23mg/m³ air		affection/dege eration	n (17h/day, 5 days/week)		value
Route of exposure	LOAEC			Lungs Organ	affection/dege	n (17h/day, 5	Rat (female)  Species	value Value
Route of exposure Inhalation (aerosol)	LOAEC	Other Method	0.23mg/m³ air		affection/dege eration	(17h/day, 5 days/week)  Exposure time	Species	value Value determina
Route of exposure  Inhalation (aerosol)  oluene  Route of exposure	LOAEC	Other	0.23mg/m³ air		affection/dege eration	n (17h/day, 5 days/week)	Species	value Value determina
Route of exposure  Inhalation (aerosol)  oluene  Route of exposure  Oral  Dermal	LOAEC	Other  Method  Equivalent to	0.23mg/m³ air  Value  625mg/kg		affection/dege eration	(17h/day, 5 days/week)  Exposure time  13 weeks (daily, 9	Species  Mouse	Value  determinate  Experimente value
Inhalation (aerosol)  oluene  Route of exposure  Oral  Dermal Inhalation	LOAEC	Method  Equivalent to OECD 408  Equivalent to	0.23mg/m³ air  Value  625mg/kg	Organ Respiratory	affection/degeration  Effect  No effect	(17h/day, 5 days/week)  Exposure time  13 weeks (daily, ! days/week)  e 103 weeks (6h/d.	Species  Mouse (male/female)  ay, 5 Rat	Value determinal Experiment value Data waivir Experiment
Route of exposure  Inhalation (aerosol)  oluene  Route of exposure  Oral  Dermal	Parameter NOAEL	Other  Method  Equivalent to OECD 408	0.23mg/m³ air  Value  625mg/kg bw/day	Organ	affection/degeration  Effect  No effect  Frosion/degeration nasal	(17h/day, 5 days/week)  Exposure time  13 weeks (daily, !days/week)	Species  Mouse (male/female)	Value  determinat  Experiment value  Data waivir
Route of exposure Inhalation (aerosol) oluene Route of exposure Oral Dermal Inhalation	Parameter NOAEL	Method  Equivalent to OECD 408  Equivalent to	0.23mg/m³ air  Value  625mg/kg bw/day	Organ  Respiratory	affection/degeration  Effect  No effect	(17h/day, 5 days/week)  Exposure time  13 weeks (daily, ! days/week)  e 103 weeks (6h/d.	Species  Mouse (male/female)  ay, 5 Rat	Value determinat Experiment value Data waivir Experiment

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			So	u(	daflex 40	) FC				
	the mixture is	based on the relev	ant ingredien	ts						
Conclusion  May cause dam	age to organs t	hrough prolonged	or repeated e	exposi	ıre.					
utagenicity (in vitr	ro)									
oudaflex 40 FC No (test)data o	n the mixture a	vailable								
xylene Result		Mathad			Toot aubotroto		Effect		Makus	datarmination
Negative		Method Other			Test substrate Chinese hamster ov	arv (CHO)				determination mental value
<u>ethylbenzene</u>										
Result	th metabolic	Method OECD 476			Test substrate  Mouse (lymphoma)	1 F 1 70V	Effect No effect			determination mental value
_	negative withou				cells)	L31761	No effect		Experi	mentai value
_	th metabolic negative withou ctivation	Equivalent to 0	DECD 473		Chinese hamster ov	ary (CHO)	No effect		Experi	mental value
4,4'-methylene		<u>ranate</u>								
Result		Method	2500 :=		Test substrate		Effect			determination
_	th metabolic negative withou ctivation	Equivalent to (	DECD 471		Bacteria (S.typhimu	rium)	No effect		Experi	mental value
toluene		Mothod			Toot substrate		Effect		Meline	dotormination
Result Negative		Method Equivalent to 0	DECD 476		Test substrate  Mouse (lymphoma	L5178Y	Effect No effect			determination mental value
					cells)					
Negative		Equivalent to (	DECD 471		Bacteria (S.typhimu	rium)	No effect		Experi	mental value
oudaflex 40 FC No (test)data or xylene Result	n the mixture a	vailable Metho	d	Evno	sure time	Test subst	trato	Organ		Value determination
Negative			ent to OECD	Expo			iale/female)			Experimental value
regative		478								Experimental value
ethylbenzene		B / a Ala a	J	F	arras Aimas	T 4 1 4		<b>0</b>		Value determination
Result Negative		Metho OECD 4		6 h		Test subst	irate iale/female)	Organ		Value determinatio Experimental value
Negative		OECD 4		48 h		Mouse (m				Experimental value
4,4'-methylene	diphenyl diisocy									
Result		Metho				Test subst		Organ		Value determinatio
Negative		OECD 4	174		eks (1h/day, 1 week)	Rat (male)				Experimental value
toluene				uay,	weekj					
Result		Metho	d	Ехро	sure time	Test subst	trate	Organ		Value determinatio
Negative		Other				Rat				Experimental value
Negative		Equival 478	ent to OECD		eks (6h/day, 5 <mark>/</mark> week)	Mouse (m	iale)			Experimental value
rcinogenicity										
oudaflex 40 FC No (test)data or xylene	n the mixture a	vailable								
Route of exposure	Parameter	Method	Value		Exposure time	Species		alue etermination	Organ	Effect
Oral	NOAEC	Other	≥ 1000mg/k	g	103 weeks (5	Mouse		perimental		No effect
Oral	NOAEC	Other	bw/day ≥ 500mg/kg		days/week) 103 weeks (5	(male/fe		lue perimental	1	No effect
ethylbenzene	1.07.120	June.	bw/day		days/week)	(male/fe		lue		in circuit
	Parameter	Method	Value		Exposure time	Species	de	alue etermination	Organ	Effect
Route of exposure					MOA mooks (Ch /day)	Rat	Ex	perimental	1	No effect
exposure Inhalation	NOAEC	Equivalent to	250ppm		104 weeks (6h/day,		mala) va	•		No cricet
exposure	NOAEC	Equivalent to OECD 453	250ppm		5 days/week)	(male/fe	emale) va	lue		ivo circut
exposure Inhalation			250ppm					•	-05	No effect
exposure Inhalation (vapours)			250ppm				Publication	lue		ind circuit

tal No carci effect  tion Organ Effect  No effect  No effect  No effect  Value determict Experim value	etermination eperimental elue  Oetermination eperimental elue eperimental elue eperimental elue eperimental elue eperimental elue	det (female)  Decies  V  Decies  V  det  E  Dale/female)  V  Ouse (male)	eks (17h/day, R veek)  e time S eks (6h/day, R veek)	5 days/v  Exposure  103 wee 5 days/v	Value  0.7mg/m³ a  Value  1200ppm  0.05ml (twiweek)	Method  Method  Equivalent to OECD 453  Not further	OAEC OAEC	exposure Inhalation (aerosol) Inhalation Route of exposure Inhalation
tion tal No carcineffect  Organ Effect tion No effect  No effect  Togan Value determinate Experimental value externing to the carcineffect to the	etermination eperimental elue  Oetermination eperimental elue eperimental elue eperimental elue eperimental elue eperimental elue	det (female)  Decies  V  Decies  V  det  at  ale/female)  v  ouse (male)	eks (17h/day, R veek)  e time S eks (6h/day, R veek)	104 wee 5 days/v  Exposure  103 wee 5 days/v	0.7mg/m³ a  Value  1200ppm  0.05ml (twi	Method  Other  Method  Equivalent to OECD 453	OAEC OAEC	Route of exposure Inhalation (aerosol) Inhalation Route of exposure Inhalation No
organ Effect  No effect  No effect  Tal No effect  No effect  Value determict Experim value ett Experim	alue Optermination operimental lue operimental lue	vecies V d t nale/female) v ouse (male) E	e time S ks (6h/day, R veek) (r	5 days/v  Exposure  103 wee 5 days/v	Value 1200ppm 0.05ml (twi	Method  Equivalent to OECD 453	arameter OAEC	(aerosol)  iene  Route of Paexposure  Inhalation No
tion tal No effect No effe	etermination eperimental elue eperimental elue eperimental elue Effect	d at E nale/female) v ouse (male) E	ks (6h/day, R veek) (r	103 wee 5 days/w	1200ppm 0.05ml (twi	Equivalent to OECD 453	OAEC	Route of Pa exposure Inhalation No
tion tal No effect No effe	etermination experimental lue experimental lue	ot Enale/female) vouse (male) E	veek) (r	5 days/v	0.05ml (twi	OECD 453		Inhalation N
Organ Value determict Experim value tt Experim	perimental lue	nale/female) v ouse (male) E	veek) (r	5 days/v	0.05ml (twi	OECD 453		
Organ Value determi ct Experim value ct Experim	Effect	, ,	N	e a	•	Not further		(vapours)
determi Experim value Experim						determined	OAEL	Dermal No
determi Experim value Experim						ailable	e mixture av	ctive toxicity lex 40 FC (test)data on the
t Experim value t Experim		Species	Exposure time	alue	hod	rameter Meth	Pa	
ct Experim	No effect	Rat (male/female)	21 days	00ppm	valent to	·	toxicity NO	Developmental t
value	No effect	Rat	(6h/day)	0 <mark>0pp</mark> m			y NO	Maternal toxicity
ct Experim	No effect	Rat	70 days	500ppm	OPPTS :	AEC (P) EPA (	tv NC	Effects on fertilit
value		(male/female)	(6h/day)		3800	870.3	, I	2110000 01110101110
ct Experim value	No effect	Rat (male/female)	70 days (6h/day)	500 <mark>p</mark> pm		AEC (F1) EPA ( 870.3	NC	
Organ Value	Effect	Species	Exposure time	alue	hod	rameter Meth	Pa	<u>ylbenzene</u>
determi		-	·					
ct Experim value	No effect	Rat (female)	15 days (gestation, daily)	00ppm	O 414	OECE OECE	toxicity NC	Developmental t
ct Experim value	No effect	Rat (male/female)	70 days (6h/day)	00ppm	O 426	OECI OECI	NO	
ct Experim value	No effect	Rat (male/female)	70 days (6h/day)	0 <mark>0pp</mark> m	O 416	AEC OECI F1/F2)		Effects on fertilit
	No effect	Rat (male/female)	2 week(s)	000ppm	valent to	AEC (P) Equiv		
ct Experim	No effect	Rat		00ppm	valent to	EQuiv	NO	
value ct Experim value	No effect	(male/female)  Mouse (male/female)	104 weeks (6h/day, 5	50ppm	O 415 er	OECL OAEL Othe	NO	
,	No effect	Rat	days/week) 13 week(s)	50ppm	O 408	DEC OECI	NO	
value		(male/female)				nate	envl diisocv	-methylenediphe
Organ Value determi	Effect	Species	Exposure time	alue	hod	rameter Meth		
ct Experim	No effect	Rat (female)	10 days	<mark>ng/m³</mark> air	O 414	AEL OECI	toxicity NO	Developmental t
value toxicity Experim value	Embryotoxicity	Rat (female)	10 days	ng/m³ air	O 414	AEL OECI	LO	
	No effect	Rat (female)		ng/kg bw/day	O 414	AEL OECI	y NO	Maternal toxicity
Data wa							ty	Effects on fertilit
ct	Effect No effect Embryotoxic	(male/female)  Species  Rat (female)  Rat (female)	Exposure time 10 days (6h/day) 10 days (6h/day)	ng/m³ air	hod 0 414 0 414 0 414	inate rameter Meth PAEL OECE AEL OECE	enyl diisocy Pa toxicity NC LO	

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toluene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	EPA OTS 798.4350	750ppm	20 days (6h/day)	Rat (female)	No effect		Experimental value
Maternal toxicity	NOAEC	EPA OTS 798.4350	750ppm	20 days (6h/day)	Rat (female)	Maternal toxicity		Experimental value
Effects on fertility	NOAEC (P)	OECD 416	2000ppm	11 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value
	NOAEC (F1)	OECD 416	500ppm	11 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value
	NOAEC (F2)	OECD 416	500ppm	11 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

#### **Conclusion CMR**

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

#### Toxicity other effects

#### Soudaflex 40 FC

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

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

#### Chronic effects from short and long-term exposure

Soudaflex 40 FC

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Respiratory difficulties. Skin rash/inflammation.

### SECTION 12: Ecological information

#### 12.1 Toxicity:

#### Soudaflex 40 FC

No (test)data on the mixture available

xylene

<u>yierie</u>		_						_	
		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes		LC50	OECD 203	2.6mg/l		Oncorhynchus mykiss	Static system	Fresh water	Read-across; Lethal
Acute toxicity invertebrates		EC50		3.82mg/l	48 h		Flow-through system	Fresh water	Read-across
Toxicity algae and other aquiplants	atic	EC50	OECD 201	4.36mg/l		Pseudokirchnerie lla subcapitata	Static system		Experimental value; Growth rate
Long-term toxicity fish		NOEC		> 1.3mg/l	, , ,		Flow-through system	Fresh water	Experimental value; Lethal
Long-term toxicity aquatic invertebrates		NOEC	US EPA	<b>1.17</b> mg/l	, , ,	Ceriodaphnia dubia			Read-across; Reproduction

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<u>ethylbenzene</u>									
		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	OECD 203	4.2mg/l	96 h		Semi-static system	Fresh water	Experimental value
Acute toxicity invertebrates		EC50		<mark>1.8m</mark> g/l - <mark>2.4m</mark> g/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aqu plants	atic	EC50	OECD 201	4.6mg/l		Selenastrum capricornutum			Experimental value; Growth rate
Long-term toxicity fish		ChV	ECOSAR v1.00	<mark>1.13</mark> mg/l	30 day(s)	Pisces			QSAR
Long-term toxicity aquatic invertebrates		NOEC	US EPA	1mg/l	7 day(s)		Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro- organisms		EC50		96mg/l	24 h	Nitrosomonas			Experimental value

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	OECD 207	0.042mg/cm <sup>2</sup> -	48 h	Eisenia fetida	Experimental value
			0.053mg/cm <sup>2</sup>			

4,4'-methylenediphenyl diisocyanate

		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	OECD 203	> 1000mg/l	96 h	Danio rerio	Static system	Fresh water	Read-across; Nominal concentration
Acute toxicity invertebrates		EC50	OECD 202	129.7mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across; Locomotor effect
Toxicity algae and other aqu plants	atic	EC50	OECD 201	> 1640mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity aquatic invertebrates		NOEC	OECD 211	≥ 10mg/l	21 day(s)	1, 10	Semi-static system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro- organisms		EC50	OECD 209	> 100mg/l	3 h	Activated sludge	Static system		Read-across; Nominal concentration

toluene

<u>oluene</u>									
		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes		LC50		5.5mg/l	96 h	Oncorhynchus kisutch	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates		LC50	US EPA	3.78mg/l	48 h	Ceriodaphnia dubia		Fresh water	Experimental value
Toxicity algae and other aquiplants	atic	EC50		12.5mg/l	72 h	Selenastrum capricornutum			Literature study
Long-term toxicity fish		NOEC		1.39mg/l	40 day(s)		Flow-through system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic invertebrates		NOEC	US EPA	0.74mg/l	7 day(s)	Ceriodaphnia dubia		Fresh water	Experimental value; Reproduction
Toxicity aquatic micro- organisms		EC50		84mg/l	24 h	Nitrosomonas	Static system	Fresh water	Experimental value

Judgement of the mixture is based on the relevant ingredients

#### <u>Conclusior</u>

Not classified as dangerous fo<mark>r the environment according to the crit</mark>eria of Regulation (EC) No 1272/2008

### 12.2 Persistence and degradability:

xylene

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	87.8%; GLP	28 day(s)	Read-across

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#### Soudaflex 40 FC ethylbenzene **Biodegradation water** Method Value Duration Value determination ISO 14593 70% - 80%; GLP 28 day(s) Experimental value Phototransformation air (DT50 air) Method Value Conc. OH-radicals Value determination 500000 /cm<sup>3</sup> Half-life soil (t1/2 soil) Method Value Primary Value determination degradation/mineralisation 3day(s) - 10day(s) Literature study Half-life air (t1/2 air) Method Value Value determination Primary degradation/mineralisation 2.3day(s) 4,4'-methylenediphenyl diisocyanate **Biodegradation** water Method Value Duration Value determination OECD 302C: Inherent Biodegradability: 0% 28 day(s) Read-across Modified MITI Test (II) Phototransformation air (DT50 air) Conc. OH-radicals Value determination Method Value AOPWIN v1.92 0.92day(s) QSAR Half-life water (t1/2 water) Value determination Method Value Primary degradation/mineralisation 20h Read-across toluene Biodegradation water Method Value Duration Value determination OECD 301C: Modified MITI Test (I) 100% 14 day(s) Experimental value Half-life soil (t1/2 soil) Method Value Value determination Primary degradation/mineralisation Literature study 2.6day(s) Contains non readily biodegradable component(s) 12.3 Bioaccumulative potential: Soudaflex 40 FC Log Kow Value Value determination Method Remark Temperature Not applicable (mixture) <u>xylene</u> **BCF** fishes Parameter 4 8 1 Method Value Duration Species Value determination BCF 7 - 26 8 week(s) Oncorhynchus mykiss Experimental value Log Kow Remark Value Temperature Value determination Method 20°C 3.2 Conclusion by analogy ethylbenzene **BCF** fishes Parameter Method Value Duration Species Value determination week(s) Oncorhynchus kisutch Literature study 15 - 79 Literature study Carassius auratus BCF other aquatic organisms Duration Value determination **Parameter** Method Value Species BCF 4.68 Lamellibranchiata Literature study Log Kow Method Value Value determination Remark Temperature EU Method A.8 3.6 20°C Experimental value Publication date: 2002-04-05 Reason for revision: ATP4 Date of revision: 2015-03-31

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#### 4,4'-methylenediphenyl diisocyanate

#### **BCF** fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	92 - 200	4 week(s)	Cyprinus carpio	Experimental value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		5.22		Estimated value
OECD 117		<mark>4.5</mark> 1	22 °C	Experimental value

#### toluene

#### BCF fishes

Parameter	Metho	d	Value	Duration	Species	Value determination
BCF			90	<mark>72 h</mark>	Leuciscus idus	Experimental value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
Other		<mark>2.7</mark> 3	20 °C	Experimental value

#### Conclusion

Does not contain bioaccumulative component(s)

#### 12.4 Mobility in soil:

#### ethylbenzene

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	PCKOCWIN v1.66	2.71	Calculated value

#### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
0.00843atm m³/mol		25°C		Experimental value

#### Percent distribution

Method	Fraction air	 Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	99.45%	0.05%	0.05%	0.45%	QSAR

#### 4,4'-methylenediphenyl diisocyanate

#### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
8.95E-7atm m³/mol		<mark>25°C</mark>		Estimated value

#### Conclusion

Contains component(s) with potential for mobility in 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:

#### Soudaflex 40 FC

#### Global warming potential (GWP)

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

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

#### <u>xylene</u>

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

#### Ground water

Ground water pollutant

#### <u>ethylbenzene</u>

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

#### 4,4'-methylenediphenyl diisocyanate

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

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#### toluene

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

#### Ground water

Ground water pollutant

#### **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

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 dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

In authorized incinerator equipped with flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations.

Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

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

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

#### **SECTION 14: Transport information** Road (ADR) 14.1 UN number: Transport Not subject 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark no 14.6 Special precautions for user: Special provisions Limited quantities Rail (RID) 14.1 UN number: Transport Not subject 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark no 14.6 Special precautions for user: Special provisions Limited quantities Inland waterways (ADN) 14.1 UN number: Not subject Transport 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Class Reason for revision: ATP4 Publication date: 2002-04-05 Date of revision: 2015-03-31

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Classification code	
Classification code	
4.4 Packing group:	
Packing group	
Labels	
4.5 Environmental hazards:	
Environmentally hazardous substance mark	no
4.6 Special precautions for user:	
Special provisions	
Limited quantities	
(IMDG/IMSBC)	
14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping name:	Not subject
14.3 Transport hazard class(es):	
Class	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Marine pollutant	
Environmentally hazardous substance mark	no
4.6 Special precautions for user:	
Special provisions	
Limited quantities	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and t	the IBC Code:
Annex II of MARPOL 73/78	
(ICAO-TI/IATA-DGR)	
(ICAO-11/1A1A-DOR)	
	Not subject
Transport	Not subject
.4.2 UN proper shipping na <mark>me:</mark> .4.3 Transport hazard class( <mark>es):</mark>	
Class	
L4.4 Packing group:	
Packing group	
Labels	
4.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	pro-
Special previsions	
Passenger and cargo transport: limited quantities: maximum ne	t quantity
per packaging	
ON 15: Regulatory information	

#### European legislation:

VOC content Directive 2010/75/EU

VOC content		Remark	
6%			
72g/l		4	

#### 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.				
· xylene · ethylbenzene · toluene	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:  (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types 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 F;  (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;  1. Shall not be used in:  — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  — tricks and jokes,  — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:  — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted 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			
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	(d) hazard class 5.1.	market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public allegibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and gril lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
· xylene · ethylbenzene · toluene	Substances classified as flammable gases category 1 or 2, flammable liquids categor 1, 2 or 3, flammable solids category 1 or 3 substances and mixtures which, in contain with water, emit flammable gases, category 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless or whether they appear in Part 3 of Annex 1 that Regulation or not.	ories dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:  — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols,
· toluene · 4,4'-methylenediphenyl diisocyanat	Toluene  Methylenediphenyl diisocyanate (MDI) including the following specific isomers: Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.  1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures.
National legislation The Netl	herlands	
Soudaflex 40 FC Waste identification (the Netherlands)	LWCA (the Netherlands): KGA categ	ory 04
Waterbezwaarlijkheid	1	
xylene SZW - List of reprotoxic substances (developme	·	
toluene SZW List of reprotovis	Doccibly bazardous to the facture	
SZW - List of reprotoxic substances (developme	·	
National legislation German Soudaflex 40 FC	У	
WGK		ed on the components in compliance with Verwaltungsvorschrift wassergefährdend
	Stoffe (VwVwS) of 27 July 2005 (Ani	nang 4)
son for revision: ATP4		Publication date: 2002-04-05
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Soudaflex 40 FC				
xylene				
Schwangerschaft Gruppe	D			
MAK 8-Stunden-Mittelwert	Xylol (alle Isomeren); 100 ppm			
ppm	Aylor (dile isomeren), 100 ppm			
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	Xylol (alle Isomeren); 440 mg/m³			
TA-Luft	5.2.5; I			
ethylbenzene				
MAK - Krebserzeugend	4			
Kategorie				
Schwangerschaft Gruppe	С			
MAK 8-Stunden-Mittelwert	Ethylbenzol; 20 ppm			
MAK 8-Stunden-Mittelwert	Ethylbenzol; 88 mg/m³			
mg/m³				
TA-Luft	5.2.5; I			
4,4'-methylenediphenyl diisocy	<u>anate</u>			
MAK - Krebserzeugend	4			
Kategorie				
Schwangerschaft Grup <mark>pe</mark>	С			
MAK 8-Stunden-Mittelwert		) (einatembare Fraktion); 0.05 mg/m³; gemessen als einatembare Fraktion (vgl.		
mg/m³	Abschn. Vd) S. 191)			
TA-Luft	5.2.5; I			
	5.2.5			
toluene	_			
Schwangerschaft Gruppe	C			
MAK 8-Stunden-Mittelwert ppm	Toluol; 50 ppm			
MAK 8-Stunden-Mittelwert	Toluol; 190 mg/m³			
mg/m³				
TA-Luft	5.2.5; I			
National legislation France				
Soudaflex 40 FC				
No data available				
4,4'-methylenediphenyl diisocy	anate			
Catégorie cancérogène	C2			
	<u></u>			
National legislation Belgium				
Soudaflex 40 FC				
No data available				
Other relevant data				
Soudaflex 40 FC				
No data available				
xylene TLV - Carcinogen	Xylene (all isomers); A4			
ethylbenzene	3; Xylenes			
TLV - Carcinogen	Ethyl benzene; A3			
IARC - classification	2B; Ethylbenzene			
4,4'-methylenediphenyl diisocy	-			
IARC - classification		e and polymeric 4,4'-methylenediphenyl diisocyanate		
toluene	5, 1, 7 metrylenearphetryl unsocyaliate	2 and polyment 7,4 incurrence phenyl ansocyanate		
TLV - Carcinogen	Toluene; A4			
IARC - classification	3; Toluene			
.2 Chemical safety assessme				
No chemical safety assessment				
ION 16: Other infor	nation			
Full text of any R-phrases referred	to under neadings 2 and 3:			

### SECT

R10 Flammable

R20 Harmful by inhalation

R20/21 Harmful by inhalation and in contact with skin

R36/37/38 Irritating to eyes, respiratory system and skin

R38 Irritating to skin

R40 Limited evidence of a carcinogenic effect

R42 May cause sensitisation by inhalation

R42/43 May cause sensitisation by inhalation and skin contact

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R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

R63 Possible risk of harm to the unborn child

R65 Harmful: may cause lung damage if swallowed

R67 Vapours may cause drowsiness and dizziness

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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H373 May cause damage to the central nervous system through prolonged or repeated exposure if inhaled.

H373 May cause damage to the ears (hearing damage) through prolonged or repeated exposure.

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

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

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

#### Specific concentration limits CLP

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

#### Specific concentration limits DSD

xylene		C ≥ 12,5 %	Xn; R20/21	DSD Annex VI (ATP 0)
4,4'-methylenediphenyl diisocyanate		C≥5%	Xi; R36/37/38	DSD Annex VI (ATP 1)
		C ≥ 0.1 %	R42	DSD Annex VI (ATP 1)

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

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