

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 ☎ +32 14 42 42 31 □ +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

J	J	
Class	Category	Hazard statements
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.

2.2. Label elements



Contains: 4,4'-methylenediphenyl diisocyanate.

Signal word Danger

H-statements
H319 Causes serious eye irritation.

H315 Causes skin irritation.

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.

P102 Keep out of reach of children.
P280 Wear protective gloves, protective clothing and eye protection/face protection.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-244<mark>0 Geel</mark>

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Reason for revision: ATP4

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P284 Wear respiratory protection.

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

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

P501

- 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

Contains a sensitising substance. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

		CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
4,4'-methylenediphenyl diisocya 01-2119457014-47		101-68-8 202-966-0		Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)(8)(10)	UVCB
xylene 01-2119488216-32		1330-20-7 215-535-7		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)(10)	Constituent
ethylbenzene 01-2119489370-35		100-41-4 202-849-4		Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412	(1)(2)(6)(10)	Constituent

⁽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. Soap may be used. Take victim to a doctor if irritation persists.

After eve contact:

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

After ingestion:

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⁽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

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 EXPOSURE/CONTACT: Headache. Nausea. Dizziness. 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:

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:

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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'-diiso	ocyanaat	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/m³
		Short time value (Private occupational exposure limit value)	0.02 ppm
		Short time value (Private occupational exposure limit value)	0.21 mg/m ³
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/m³
		Short time value (Public occupational exposure limit value)	97 ppm
		Short time value (Public occupational exposure limit value)	430 mg/m³
Xyleen (o-,m- en p-isome	ren)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	48 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	210 mg/m ³
		Short time value (Public occupational exposure limit value)	100 ppm
		Short time value (Public occupational exposure limit value)	442 mg/m³

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EU		
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
Xylene, mixed isomers, p	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/m³
	Short time value (Indicative occupational exposure limit value)	100 ppm
	Short time value (Indicative occupational exposure limit value)	442 mg/m³

Belgium

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
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/m³
Xylène, isomères mixtes, purs	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	221 mg/m ³
	Short time value	100 ppm
	Short time value	442 mg/m ³

USA (TLV-ACGIH)

Ī	Ethyl benzene		Time-weighted average	exposure limit 8 h	(TLV - Adop	ited Value)	20 ppm
Ī	Methylene bisphenyl isog	cvanate (MDI)	Time-weighted average	exposure limit 8 h	(TLV - Ador	ted Value)	0.005 ppm

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(ylene (all isomers)		Time-weighted average exposure limit 8 h (TLV - Adopted Value)	100 ppm
		Short time value (TLV - Adopted Value)	150 ppm
Germany			
I,4'-Methylendiphenyldii	socyanat	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m ³
Ethylbenzol		Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	88 mg/m³
Kylol (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
rance			
1,4'-Diisocyanate de diph	énylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.01 ppm
		Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³
		Short time value (VL: Valeur non réglementaire indicative)	0.02 ppm
		Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m ³
thylbenzène		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/m³
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m ³
(ylènes, isomères mixtes	, purs	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 ³
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m ³
JK			
Ethylbenzene		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/m³
		Short time value (Workplace exposure limit (EH40/2005))	125 ppm
		Short time value (Workplace exposure limit (EH40/2005))	552 mg/m ³
socyanates, all (as -NCO)	Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m ³
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m ³
(ylene, o-,m-,p- or mixed	isomers	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))	220 mg/m ³
		Short time value (Workplace exposure limit (EH40/2005))	100 ppm
		Short time value (Workplace exposure limit (EH40/2005))	441 mg/m ³

8.1.2 Sampling methods

If applicable and available it will be listed below.

* *			
4,4-Methylene Bisphenyl	Isocyanate (MDI) (Isocyanates)	NIOSH	5521
4,4'-Methylenebis(pheny	lisocyanate)	NIOSH	5525
Ethyl Benzene (Hydrocar	bons, Aromatic)	NIOSH	1501
Ethyl Benzene		OSHA	1002
Ethyl Benzene		OSHA	7
Methylene Bisphenyl Iso	cyanate - (MDI)	OSHA	18
Methylene Bisphenyl Iso	cyanate (MDI)	OSHA	47
Methylene Bisphenyl Iso	cyanate	OSHA	33
Xylene (Hydrocarbons, ar	romatic)	NIOSH	1501
Xylene (Volatile Organic o	compounds)	NIOSH	2549

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

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

8.1.4 DNEL/PNEC values

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DNEL	Remark				1 31	
Acute local effects inhalation		g/m³	0.05 mg/m ³	halation	Long-term local effects in	DNEL
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Compartments Value Remark Fresh water 0.1 mg/l Marine water 0.01 mg/l						
Fresh water 0.1 mg/l Marine water 0.01 mg/l		Remark			Value	
Marine water 0.01 mg/l		/				
Aqua (intermittent releases) 0.1 mg/l					0.1 mg/l	
STP 9.6 mg/l						
Fresh water sediment 13.7 mg/kg sediment dw					<u> </u>	
Marine water sediment 1.37 mg/kg sediment dw						
Soil 2.68 mg/kg soil dw						
Oral 0.02 g/kg food						
Control banding				5.50u	U.U2 8/ N8	
applicable and available it will be listed below.					be listed below.	-
TT						The second secon

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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		Viscous	
Odour		Solvent-like odour	
Odour threshold		No data available	
Colour		Variable in colour, depending on the composition	
Particle size		No data available	
Explosion limits		Not applicable	
Flammability		Non combustible	
Log Kow		Not applicable (mixture)	
Dynamic viscosity		No data available	
Kinematic viscosity		No data available	
Melting point		No data available	
Boiling point		No data available	
Flash point		Not applicable	
Evaporation rate		No data available	
Relative vapour density		>1	
Vapour pressure		No data available	
Solubility		water ; insoluble	
		organic solvents; soluble	
Relative density		1.3; 20°C	
Decomposition temperature		No data available	
Auto-ignition temperatur <mark>e</mark>		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	1300 kg/m³ ; 2	0°C		

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.

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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

4,4'-methylenediphenyl diisocyanate

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

xylene

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

ethylbenzene

	Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
	Oral	LD50		<mark>3500 mg</mark> /kg		Rat (male/female)	Experimental value	
	Dermal	LD50		<mark>15432 m</mark> g/kg	24 h	Rabbit (male)	Experimental value	
Ī	Inhalation	LC50		1432 ppm	4 h	Mouse (male)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Soudaflex 40 FC

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

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

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value Remark determination
ye	Modera <mark>tely</mark> irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value
Skin	Moderately irritating		24 h	24; 72 hours	Rabbit	Experimental value
nhalation vapours)	Irritating		4 h		Human	
	Irritating; STOT SE cat.3					Literature study

Route of exposure	Result	Method	Exposure time	Time point	-	Value determination	Remark
Eye	Slightly <mark>irritating</mark>			7 days	Rabbit	Experimental value	
	Modera <mark>tely</mark> irritating		24 h		Rabbit	Experimental value	

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

Soudaflex 40 FC

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

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

<u>xylene</u>

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sens <mark>itizing</mark>	OECD 429			Mouse	Experimental value	

ethylbenzene

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Other			Inconclusive, insufficient data	

Classification is based on the relevant ingredients

Conclusion

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

Not classified as sensitizing for skin

Specific target organ toxicity

Soudaflex 40 FC

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Paramete	er Method	Value	Organ	Effect	Exposure time		Value determination
Inhalation (aerosol)	LOAEC	Other	0.23 mg/m³ air	-	Lung tissue affection/degen		(/	Experimental value
					, ,	days/week)		

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xylene Route of exposure	Daramet	er Method	Value	Organ	Effect	Exposure time	Species	Value
Route of exposure	raiaiiicu	ei ivietilou		Organ	Lifect	Exposure time	Species	determinatio
Oral (stomach tube)	LOAEL	Equivalent to OECD 408	150 mg/kg bw/day	Liver	Weight gain	90 day(s)	Rat (male)	Experimental value
Oral	NOAEL	Other	250 mg/kg bw/day		No effect	103 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation	NOAEC	Subchronic	≥ 3515 mg/m³		No effect	13 weeks (6h/day, 5	Rat (male)	Experimental
(vapours)		toxicity test				days/week)		value
ethylbenzene Route of exposure	Paramet	er Method	Value	Organ	Effect	Exposure time	Species	Value
Route of exposure	aramet	ci ivictilou	Value	Organ	Elicot	Exposure time	эрсысэ	determinatio
Oral	NOAEL	OECD 407	75 mg/kg bw/day	Liver	Enlargement/af ection of the liver	f 28 day(s)	Rat (male/female)	Experimental value
Oral	NOAEL	OECD 408	75 mg/kg bw/day	Liver	Enlargement/af ection of the liver	f 13 week(s)	Rat (male/female)	Experimental value
Oral	LOAEL	OECD 408	250 mg/kg bw/day	Liver	Enlargement/af ection of the liver	f 13 week(s)	Rat (male/female)	Experimental value
Oral	NOAEL	Equivalent to OECD 424	500 mg/kg bw/day		No effect	90 day(s)	Rat (male/female)	Experimental value
Inhalation	LOAEC	Equivalent to	75 ppm		No effect	104 weeks (6h/day, 5		Experimental
(vapours) Inhalation	NOATI	OECD 453	1000 nnm		No effect	days/week)	(male/female)	value
ilinalation	NOAEL	Equivalent to OECD 413	1000 ppm		по епест	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation	NOAEC	OECD 412	800 ppm	Liver		4 weeks (6h/day, 5 days/week)	Mouse (male/female)	Experimental value
Inhalation	NOAEC	OECD 412	800 ppm	Liver	Enlargement/af ection of the liver	f 4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
genicity (in vitro)	nronic toxi	шу						
daflex 40 FC No (test)data on the m	iixture ava	lable		i				
daflex 40 FC	iixture ava	lable		Test substrat	re Ef	fect	Value dete	rmination
daflex 40 FC No (test)data on the m 4,4' <u>-methylenediphen</u>	nixture avai yl diisocyar abolic e without	lable	CD 471	Test substrat Bacteria (S.ty		fect o effect	Value dete Experiment	
daflex 40 FC No (test)data on the m 4,4'-methylenediphen Result Negative with metactivation, negative metabolic activation	nixture avai yl diisocyar abolic e without	lable nate Method Equivalent to OEG	CD 471	Bacteria (S.ty	phimurium) No	o effect	Experiment	tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphent Result Negative with meta activation, negative metabolic activation xylene Result	nixture avai yl diisocyar abolic e without on	lable nate Method Equivalent to OEG	CD 471	Bacteria (S.ty	phimurium) No	o effect	Experiment Value dete	tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphen Result Negative with metactivation, negative metabolic activation	abolic ab	lable nate Method Equivalent to OEG	CD 471	Bacteria (S.ty	phimurium) No	o effect	Experiment	tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation Result Negative with metactivation xylene Result Negative with metactivation, negative metabolic activation metabolic activation	abolic ab	lable nate Method Equivalent to OEG Method Other	CD 471	Bacteria (S.ty Test substrat Chinese hams	e Efster ovary (CHO)	effect fect p effect	Experiment Value dete Experiment	rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation xylene Result Negative with metactivation, negative metabolic activation activation, negative metabolic activation metabolic activation metabolic activation Result Result	abolic e without abolic e without on abolic e without	Method Method Method Method Method	CD 471	Test substrat Chinese hams	e Efster ovary (CHO)	fect o effect	Value dete Experiment	rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation Result Negative with metactivation xylene Result Negative with metactivation, negative metabolic activation metabolic activation	abolic e without on abolic e without en abolic e without en abolic e without en abolic e without	lable nate Method Equivalent to OEG Method Other	CD 471	Test substrat Chinese hams	e Efster ovary (CHO)	effect fect p effect	Experiment Value dete Experiment	rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation Negative with metactivation, negative metabolic activation Result Negative with metactivation, negative metabolic activation Result Negative with metactivation Result Negative with metactivation, negative metabolic activation	abolic e without on abolic e without	Method Method Method Method Method		Test substrat Chinese hams Test substrat Mouse (lympcells)	e Efster ovary (CHO) No	fect o effect	Value dete Experiment	rmination tal value rmination tal value rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation Result Negative with metactivation, negative metabolic activation detivation, negative metabolic activation Result Negative with metactivation, negative metabolic activation, negative metabolic activation, negative metabolic activation, negative with metactivation, negative with metactivation, negative with metactivation, negative with metactivation, negative metabolic activation, negative with metactivation, negative with metactivation, negative	abolic e without on abolic e without	Method Other Method OECD 476		Test substrat Chinese hams Test substrat Mouse (lympcells)	phimurium) Re Ef ster ovary (CHO) No Re Ef homa L5178Y No	fect o effect fect o effect o effect	Value dete Experiment Value dete Experiment	rmination tal value rmination tal value rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation, negative metabolic activation, negative metabolic activation, negative metabolic activation. Result Negative with metactivation, negative with metactivation, negative metabolic activation, negative metabolic activation, negative with metactivation, negative with metactivation, negative metabolic activation, negative metabolic activation, negative metabolic activation	abolic e without on	Method Other Method OECD 476 Equivalent to OEC		Test substrat Chinese hams Test substrat Mouse (lympcells)	phimurium) Re Ef ster ovary (CHO) No Re Ef homa L5178Y No	fect o effect fect o effect o effect	Value dete Experiment Value dete Experiment	rmination tal value rmination tal value rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation Negative with metactivation, negative metabolic activation Megative with metactivation, negative metabolic activation Result Negative with metactivation, negative metabolic activation Negative with metactivation, negative metabolic activation Negative with metactivation, negative metabolic activation Megative with metactivation, negative metabolic activation	abolic e without on abolic	Method Other Method OECD 476 Equivalent to OEC	CD 473	Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e Efster ovary (CHO) Notes ovary (CHO)	fect o effect fect o effect o effect o effect	Value dete Experiment Value dete Experiment Experiment	rmination tal value rmination tal value tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation,	abolic e without on abolic	Method Other Method OECD 476 Equivalent to OEC Method Other Method	CD 473	Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e Efster ovary (CHO) Notes ovary (CHO) (CH	fect o effect fect o effect o effect	Value dete Experiment Value dete Experiment Experiment	rmination tal value rmination tal value tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation, negative metabolic activation negative metabolic negative	abolic e without on abolic	Method Other Method OECD 476 Equivalent to OEC	Expo	Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e Efster ovary (CHO) No	fect o effect fect o effect o effect o effect	Value dete Experiment Value dete Experiment Experiment	rmination tal value rmination tal value rmination tal value
daflex 40 FC No (test)data on the m 4,4'-methylenediphem Result Negative with metactivation, negative metabolic activation,	abolic e without on abolic	Method Other Method OECD 476 Equivalent to OEC Method Other Method	Expo	Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e Efster ovary (CHO) Notes ter ovary (CHO) (CHO) (CHO) (CHO) (CHO) (CHO) (CHO) (CHO) (CH	fect o effect fect o effect o effect o effect	Value dete Experiment Value dete Experiment Experiment Experiment	rmination tal value rmination tal value tal value

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Method	Exposure time	Test substrate	Organ	Value determination
Equivalent to OECD 478		Mouse (male/female)		Experimental value
Method	Exposure time	Test substrate	Organ	Value determination
OECD 486	6 h	Mouse (male/female)		Experimental value
OECD 474	48 h	Mouse (male)		Experimental value
	Equivalent to OECD 478 Method OECD 486	Equivalent to OECD 478 Method Exposure time OECD 486 6 h	Equivalent to OECD Mouse (male/female)	Equivalent to OECD Mouse (male/female)

Carcinogenicity

Soudaflex 40 FC

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	-	Value determination	Organ	Effect
Inhalation (aerosol)	NOAEC	Other	O,	104 weeks (17h/day, 5 days/week)		Experimental value		No carcinogenic effect

<u>xylene</u>

	oute of xposure	Parameter	Method	Value	Exposure time	 Value determination	Organ	Effect
C	ral					 Experimental value		No carcinogenic effect
С	ral			0, 0		 Experimental value		No carcinogenic effect

ethylbenzene

Tryiberizerie								
Route of	Parameter	Method	Value	Exposure time	Species	Value	Organ	Effect
exposure						determination		
Inhalation	NOAEC	Equivalent to	250 ppm	104 weeks (6h/day, 5	Rat	Experimental		No effect
(vapours)		OECD 453		days/week)	(male/female)	value		

Reproductive toxicity

Soudaflex 40 FC

No (test)data on the mixture available

4,4'-methylenediphenyl diisocyanate

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

<u>xylene</u>

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	500 ppm	, .	Rat (male/female)	No effect	Foetus	Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	500 ppm		Rat	No effect		Experimental value
Effects on fertility	NOAEC (P)	EPA OPPTS 870.3800	≥ 500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimental value
	NOAEC (F1)	EPA OPPTS 870.3800	≥ 500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimental value

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ethylbenzene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	OECD 414	500 ppm	15 days (gestation, daily)	Rat (female)	No effect		Experimental value
	NOAEC	OECD 426	500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimental value
Effects on fertility	NOAEC (P/F1/F2)	OECD 416	500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimental value
	NOAEC (P)	Equivalent to OECD 415	1000 ppm	2 week(s)	Rat (male/female)	No effect		Experimental value
	NOEC (F1)	Equivalent to OECD 415	100 ppm		Rat (male/female)	No effect		Experimental value
	NOAEL	Other	750 ppm	104 weeks (6h/day, 5 days/week)	Mouse (male/female)	No effect		Experimental value
	NOEC	OECD 408	750 ppm	13 week(s)	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		100 mg/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

4,4'-methylenediphenyl diisocyanate

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

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
					•		water	
Acute toxicity fishes	LC50	OECD 203	2.6 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Read-across; Lethal
Acute toxicity invertebrates	EC50		3.82 mg/l	48 h	Daphnia magna	Flow-through system	Fresh water	Read-across
Toxicity algae and other aqu <mark>ations of the second states of the second s</mark>	EC50	OECD 201	4.36 mg/l	72 h	Pseudokirchnerie la subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOEC		> 1.3 mg/l	56 day(s)	Oncorhynchus	Flow-through	Fresh water	Experimental value;
Long-term toxicity aquatic	NOEC	US EPA	1.17 mg/l	7 day(s)	mykiss Ceriodaphnia	system	Fresh water	Lethal Read-across;
invertebrates	NOLC	OJLIA	1.17 Hig/1	, day(3)	dubia		i resii watei	Reproduction
<u>hylbenzene</u>	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determinatio
	larameter	IVICTIO	Value	Duration	Species	rest design	water	value determination
Acute toxicity fishes	LC50	OECD 203	4.2 mg/l	96 h	Salmo gairdneri	Semi-static system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	US EPA	1.8 mg/l - 2.4 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquation	EC50	OECD 201	4.6 mg/l	72 h	Selenastrum			Experimental value;
plants Long-term toxicity fish	ChV	ECOSAR v1.00	1 12 mg/l	30 day(s)	capricornutum Pisces			Growth rate QSAR
Long-term toxicity fish	CITY	LCO3AN VI.00	1.13 mg/i	30 day(s)	risces			QSAN
Long-term toxicity aquatic invertebrates	NOEC	US EPA	1 mg/l	7 day(s)	Ceriodaphnia dubia	Semi-static system	Fresh water	Experimental value; Reproduction
	EC50		96 mg/l	24 h	Nitrosomonas	o you can		Experimental value
Toxicity aquatic micro-					1			
Toxicity aquatic micro- organisms								
	Parameter LC50	Method OECD 207	0.0	lue 142 mg/cm² - g/cm²	Duration 0.053 48 h	Specie Eisenia	es a fetida	
Toxicity soil macro-organisms gement of the mixture is based iclusion ot classified as dangerous for the	on the relevan	OECD 207	0.0 mg	042 mg/cm ² - 15/cm ²	0.053 48 h			
Toxicity soil macro-organisms gement of the mixture is based inclusion ot classified as dangerous for the classified as dange	on the relevante environmented adability	OECD 207	0.0 mg	042 mg/cm ² - 15/cm ²	0.053 48 h			Value determination Experimental value
Toxicity soil macro-organisms gement of the mixture is based clusion ot classified as dangerous for th 2. Persistence and degra 4-methylenediphenyl diisocyar Biodegradation water	on the relevante environmented adability	OECD 207 t ingredients according to th	0.0 mg	42 mg/cm² - //cm² egulation (EC)	0.053 48 h No 1272/2008	Eisenia	a fetida	Experimental value
Toxicity soil macro-organisms gement of the mixture is based clusion ot classified as dangerous for th 2. Persistence and degra 4'-methylenediphenyl diisocyar Biodegradation water Method OECD 302C: Inherent Biodegr	on the relevante environmentedability	OECD 207	0.0 mg	042 mg/cm ² - 15/cm ²	0.053 48 h No 1272/2008	Eisenia		Experimental value
Toxicity soil macro-organisms gement of the mixture is based clusion ot classified as dangerous for the 2. Persistence and degrate-methylenediphenyl diisocyar Biodegradation water	on the relevante environmente dability nate	OECD 207 t ingredients according to th	0.0 mg	42 mg/cm² - //cm² egulation (EC)	0.053 48 h No 1272/2008	Eisenia	a fetida Iue determina	Experimental value
Toxicity soil macro-organisms gement of the mixture is based sclusion of classified as dangerous for the classified as dangerous for the classified dangerous for	on the relevante environmente dability nate	OECD 207 t ingredients according to th	0.0 mg	142 mg/cm² - 1/cm² Pegulation (EC) Dura 28 da	0.053 48 h No 1272/2008	Eisenia Va Re	a fetida Iue determina	ation
Toxicity soil macro-organisms gement of the mixture is based iclusion ot classified as dangerous for the classified as danger	on the relevante environmente dability nate	oECD 207 t ingredients according to th Value 0 %	0.0 mg	142 mg/cm² - 1/cm² Pegulation (EC) Dura 28 da	0.053 48 h No 1272/2008 tion ny(s)	Va Re	a fetida I <mark>lue determin</mark> a ad-across	Experimental value
Toxicity soil macro-organisms gement of the mixture is based inclusion of classified as dangerous for the classified as dange	on the relevante environmente dability nate	oECD 207 t ingredients according to th Value 0 % Value 0.92 day(s)	0.0 mg	Pegulation (EC) Dura 28 da	0.053 48 h No 1272/2008 tion ry(s) OH-radicals	Va Re QS	lue determina ad-across lue determina	Experimental value
Toxicity soil macro-organisms gement of the mixture is based iclusion ot classified as dangerous for the classified as danger	on the relevante environmente adability nate	oECD 207 t ingredients according to th Value 0 %	0.0 mg	Prim	0.053 48 h No 1272/2008 tion ry(s) OH-radicals	Va Re Va Va	lue determina ad-across	Experimental value
Toxicity soil macro-organisms gement of the mixture is based sclusion ot classified as dangerous for the classified as danger	on the relevante environmente adability nate	oECD 207 t ingredients according to th Value 0 % Value 0.92 day(s)	0.0 mg	Prim	0.053 48 h No 1272/2008 tion ny(s) OH-radicals	Va Re Va QS Va	lue determina ad-across lue determina	Experimental value
Toxicity soil macro-organisms gement of the mixture is based iclusion ot classified as dangerous for the classified as danger	on the relevante environmente adability nate	OECD 207 t ingredients according to th Value 0 % Value 0.92 day(s)	0.0 mg	Prim	0.053 48 h No 1272/2008 tion ny(s) OH-radicals	Va Re Va QS Va	lue determina ad-across lue determina SAR	Experimental value
Toxicity soil macro-organisms gement of the mixture is based sclusion ot classified as dangerous for the classified as danger	on the relevante environmente adability nate	OECD 207 t ingredients according to th Value 0 % Value 0.92 day(s)	0.0 mg	Prim	0.053 48 h No 1272/2008 tion ny(s) OH-radicals ary adation/mineralisat	Va Re Va Qs Va	lue determina ad-across lue determina SAR	Experimental value ation

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	vater	V	alue		Duration		Value	determination
ISO 14593			0 % - 80 %; GL	.P	28 day(s)			mental value
Phototransforma	tion air (DT50 air							
Method		V	alue		Conc. OH	-radicals	Value	determination
					500000 /	cm ³		
Half-life soil (t1/2	2 soil)							
Method			alue	()	Primary degradati	on/mineralisation		determination
Half-life air (t1/2	oir)	3	day(s) - 10 da	iy(s)			Literat	ure study
Method	all)	V	alue		Primary		Value	determination
						on/mineralisation		
		2.	3 day(s)					
onclusion Contains non readil 2.3. Bioaccumu								
daflex 40 FC								
g Kow Vlethod	Rema	nrk	V.	alue	То	mperature	Value	e determination
victiou		pplicable (mixt		iido	ie.	Imperatore	vaiu	Cacterrilliation
1,4'-methylenediph BCF fishes								
Parameter	Method	Value		Duration	Species			Value determination
BCF	OECD 305	92 - 20	0	4 week(s)	Cyprinus	s carpio		Experimental value
Log Kow Method	lp.	emark		Value		Temperature	h	/alue determination
ivietriou	K	EIIIdIK		5.22		remperature		stimated value
OECD 117				4.51		22 °C		xperimental value
ylene								
BCF fishes								
Parameter	Method	Value		Duration	Species			Value determination
BCF		7 - 26		8 week(s)	Oncorhy	nchus mykiss		Experimental value
Log Kow								
Method	R	emark		Value		Temperature		/alue determination
				3.2		20 °C		Conclusion by analogy
ethylbenzene BCF fishes								
Parameter	Method	Value		Duration	Species			Value determination
	Other	1		6 week(s)		nchus kisutch		Literature study
BCF		15 - 79				s auratus		Literature study
BCF								,
BCF other aquation	c organisms			Duration	Species			Value determination
	c organisms Method	Value		2 411 411 511	Species			
BCF other aquati		Value 4.68				ranchiata		Literature study
BCF other aquati Parameter BCF Log Kow	Method	4.68						· ·
BCF other aquati Parameter BCF Log Kow Method	Method			Value		Temperature		/alue determination
BCF other aquatic Parameter BCF Log Kow Method EU Method A.8	Method	4.68						·
BCF other aquating Parameter BCF Log Kow Method EU Method A.8 nclusion	Method	4.68 emark		Value		Temperature		/alue determination
BCF other aquati Parameter BCF Log Kow Method EU Method A.8 Inclusion Opes not contain bi	Method R	4.68 emark		Value		Temperature		/alue determination
BCF other aquating Parameter BCF Log Kow Method EU Method A.8 Inclusion Does not contain bit 2.4. Mobility in	Method Residual social	4.68 emark emponent(s)		Value		Temperature		/alue determination
BCF other aquating Parameter BCF Log Kow Method EU Method A.8 Inclusion Does not contain bit 2.4. Mobility in 1,4'-methylenediph	Method Residual social social social diisocyanate	4.68 emark emponent(s)		Value		Temperature		/alue determination
BCF other aquation Parameter BCF Log Kow Method EU Method A.8 Inclusion Does not contain bit 2.4. Mobility in 1,4'-methylenediph Volatility (Henry)	Method Residual dissocyanates and the solution of the solutio	4.68 emark emponent(s)		Value 3.6	Lamellib	Temperature 20 °C	E	/alue determination xperimental value
BCF other aquating Parameter BCF Log Kow Method EU Method A.8 Inclusion Does not contain bit 2.4. Mobility in 1,4'-methylenediph	Method Residual dissocyanates as Law constant H	4.68 emark emponent(s)		Value 3.6	Lamellib	Temperature	E Val	/alue determination
BCF other aquati Parameter BCF Log Kow Method EU Method A.8 Inclusion Does not contain bi 2.4. Mobility in 1,4'-methylenediph Volatility (Henry' Value	Method Residual dissocyanates as Law constant H	4.68 emark emponent(s)		Value 3.6	Lamellib	Temperature 20 °C	E Val	/alue determination xperimental value

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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
0.00843 atm m³/mol		<mark>25 ℃</mark>		Experimental value

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	99.45 <mark>%</mark>	_	0.05 %	0.05 %	0.45 %	QSAR

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

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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)

4,4'-methylenediphenyl diisocyanate

Global warming potential (GWP)

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

xylene

Global warming potential (GWP)

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

Ground water

Ground water pollutant

ethylbenzene

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) 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

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 Regulation (EU) No 1357/2014.

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)

Reason for revision: ATP4 Publication date: 2002-04-05
Date of revision: 2015-06-18

Revision number: 0500 Product number: 32947 15 / 19

14.1 LIN number	
14.1. UN number	Transaction of the second
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	
nil (RID)	
14.1. UN number	
	Not a let of
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	
land waterways (ADN)	
14.1. UN number	
Transport	Netsubject
14.2. UN proper shipping name	Not subject
14.3. Transport hazard class(es)	
Class	
Classification code	
I Jassification code	
14.4. Packing group	
14.4. Packing group Packing group	
14.4. Packing group Packing group Labels	
14.4. Packing group Packing group Labels 14.5. Environmental hazards	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark	no
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user	no
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions	no
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user	no
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities	no
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 24 (IMDG/IMSBC)	no
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number	
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14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es)	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 24 (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark	
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant	Not subject
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark	Not subject
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user	Not subject
14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Limited quantities 2a (IMDG/IMSBC) 14.1. UN number Transport 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Marine pollutant Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions	Not subject

Soudaflex 40 FC Limited quantities 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Annex II of MARPOL 73/78 Air (ICAO-TI/IATA-DGR) 14.1. UN number Transport Not subject 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark no 14.6. Special precautions for user Special provisions

SECTION 15: Regulatory information

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

European legislation:

per packaging

VOC content Directive 2010/75/EU

VOC content		Remark		<u>. </u>
8 % - 13 %				
104 g/l - 169 g/l				

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC and 2009/161/EU)

Passenger and cargo tran<mark>sport: limited quantities: maximum ne</mark>t quantity

Product name	Skin resorption Skin resorption
Ethylbenzene	Skin
Xylene, mixed isomers, pure	Skin

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	Liquid substances or mixtures which are 1. Shall not be used in:
· ethylbenzene	regarded as dangerous in accordance with — ornamental articles intended to produce light or colour effects by means of different
	Directive 1999/45/EC or are fulfilling the criteria phases, for example in ornamental lamps and ashtrays,
	for any of the following hazard classes or — tricks and jokes,
	categories set out in Annex I to Regulation (EC) — games for one or more participants, or any article intended to be used as such, even with
	No 1272/2008: ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the
	(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 market.3. Shall not be placed on the market if they contain a colouring agent, unless required
	types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 for fiscal reasons, or perfume, or both, if they:
	and 2, 2.14 categories 1 and 2, 2.15 types A to — can be used as fuel in decorative oil lamps for supply to the general public, and,
	F; — present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for
	(b) hazard classes 3.1 to 3.6, 3.7 adverse effects supply to the general public shall not be placed on the market unless they conform to the
	on sexual function and fertility or on European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee
	development, 3.8 effects other than narcotic for Standardisation (CEN).5. Without prejudice to the implementation of other Community
	effects, 3.9 and 3.10; provisions relating to the classification, packaging and labelling of dangerous substances and
	(c) hazard class 4.1; mixtures, suppliers shall ensure, before the placing on the market, that the following
	(d) hazard class 5.1. requirements are met:
	a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly,
	legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of
1	children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of
1	lamps — may lead to life- threatening lung damage";
	b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are
	legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may
	lead to life threatening lung damage";
	c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general
	public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6.
	No later than 1 June 2014, the Commission shall request the European Chemicals Agency to
	prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban,
	if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended
	for supply to the general public.7. Natural or legal persons placing on the market for the first
	time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011,
	and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids
	labelled R65 or H304 to the competent authority in the Member State concerned. Member
	States shall make those data available to the Commission.'
·xylene	Substances classified as flammable gases 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol
· ethylbenzene	category 1 or 2, flammable liquids categories 1 dispensers are intended for supply to the general public for entertainment and decorative
con for rovision: ATD4	Publication date: 2002 04 05

Reason for revision: ATP4 Publication date: 2002-04-05
Date of revision: 2015-06-18

Revision number: 0500 Product number: 32947 17 / 19

including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate Methylenediphenyl diisocyanate; 2,2'- Meth	ppliers shall ensure before the place of the
water, emit flammable gases, category 1, 2 or 3, pyrophoric fluidis category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. - "whoopee" cushions, silly string aerosols, initiation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stik bombs. 2. Without prejudice to the application of classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers legibly and indelibly with: "For professional users only". 3. By way of derogation, proposed dispensers referred to in paragraphs 1 and 2 she they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methyl	ppliers shall ensure before the place of the
3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. - silly string aerosols, silly string aerosols, imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, strik bombs. 2. Without prejudice to the application of classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers referred to Article 8 (1a) of Counter aerosol disp	ppliers shall ensure before the place of the
solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. - Silly string aerosols, imitation excrement, or not. - Indicate the papear in Part 3 of Annex VI to that Regulation or not. - Silly string aerosols, imitation excrement, or not sor parties, odecorative flakes and foams, artificial cobwebs, artificial cobwebs, artificial cobwebs, such as a string on the market that the packaging of aerosol dispensers legibly and indelibly with: - For professional users only".3. By way of derogation, pactosol dispensers referred to a the paragraphs 1 and 2 shat they conform to the requirements indicated. 4.4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4.4'-Methylenediphenyl diisocyanate; 2.4'-Methylenediphenyl diisocyanate; 2.4'-Methylenediphenyl diisocyanate; 2.4'-Methylenediphenyl diisocyanate; 2.4'-Methylenediphenyl diisocyanate; 2.6'-Methylenediphenyl diisocyanate; 2.6'-Methylenedip	ppliers shall ensure before the place of the
appear in Part 3 of Annex VI to that Regulation or not. - imitation excrement, - horns for parties, - decorative flakes and foams, - artificial cobwebs, - strik books. 2. Without prejudice to the application of classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers legibly and indelibly with: "For professional users only".3. By way of derogation, packaging and indelibly with: "For professional users only".3. By way of derogation, packaging of interest of Article 8 (1a) of Counting aerosol dispensers referred to in paragraphs 1 and 2 shat they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenedi	ppliers shall ensure before the place of the
or not. - horns for parties, - decorative flakes and foams, - artificial cobwebs, - stink bombs.2. Without prejudice to the application or classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers legibly and indelibly with: "For professional users only".3. By way of derogation, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers referred to Article 8 (1a) of Coun aerosol dispensers referred to in paragraphs 1 and 2 sha they conform to the requirements indicated. 4,4"-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4"-Methylenediphenyl diisocyanate; 2,4"-Methylenediphenyl diisocyanate; 2,2"-Methylenediphenyl diisocyanate; 2,2"-Methylenediphen	ppliers shall ensure before the place of the
- decorative flakes and foams, - artificial cobwebs, - with bombs.2. Without prejudice to the application of classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers legibly and indelibly with: "For professional users only" 3. By way of derogation, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers referred to Article 8 (1a) of Count aerosol dispensers referred to in paragraphs 1 and 2 shat they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methyle	ppliers shall ensure before the place of the
- artificial cobwebs, - stink bombs. 2. Without prejudice to the application or classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers legibly and indelibly with: "For professional users only".3. By way of derogation, packaging and indelibly with: "For professional users only".3. By way of derogation, packaging and indelibly with: "For professional users only".3. By way of derogation, packaging and indelibly with: "For professional users only".3. By way of derogation, packaging of indelibly with: "For professional users only".3. By way of derogation, packaging of indelibly with the earosol dispensers referred to Article 8 (Ia) of Counaerosol dispensers referred to in paragraphs 1 and 2 shat they conform to the requirements indicated. 1. Shall not be placed on the market after 27 December concentrations equal to or greater than 0,1 % by weight Methylenediphenyl diisocyanate; 2,2'-Wethylenediphenyl dii	ppliers shall ensure before the place of the
- stink bombs. 2. Without prejudice to the application of classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers legibly and indelibly with: "For professional users only".3. By way of derogation, properties of the market that the packaging of aerosol dispensers referred to Article 8 (1a) of Counaerosol dispensers referred to Article 8 (1a) of Counaerosol dispensers referred to In paragraphs 1 and 2 shat they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenedip	ppliers shall ensure before the place of the
classification, packaging and labelling of substances, sup on the market that the packaging of aerosol dispensers leighby and indelibly with: "For professional users only".3. By way of derogation, packaging and dispensers referred to a Article 8 (1a) of Counter aerosol dispensers referred to a paragraphs 1 and 2 shat they conform to the requirements indicated. 4.4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4.4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate; 2	ppliers shall ensure before the place of the
on the market that the packaging of aerosol dispensers legibly with: "For professional users only".3. By way of derogation, pack the aerosol dispensers referred to Article 8 (1a) of Counter aerosol dispensers referred to in paragraphs 1 and 2 shat they conform to the requirements indicated. 4.4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate (MDI) is marked visibly, legibly and indelibly as follows, and community legislation concerning the classification, pac mixtures: "Persons already sensitised to diisocyanates may dev product. Persons suffering from asthma, eczema or skin proble dermal contact, with this product. Persons suffering from asthma, eczema or skin proble dermal contact, with this product. This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot Mational legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Waterbezwaarlijkheid 1	s referred to above is marked visible paragraphs 1 and 2 shall not apply incil Directive 75/324/EEC.4. The hall not be placed on the market unit of MDI for supply to the general on the market that the packaging: equirements of Council Directive divided without prejudice to other inckaging and labelling of substances evelop allergic reactions when using blems should avoid contact, including foor ventilation unless a protectiving to standard EN 14387) is used.
#For professional users only".3. By way of derogation, parties acrosol dispensers referred to Article 8 (1a) of Counaerosol dispensers referred to in paragraphs 1 and 2 shat they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'	ncil Directive 75/ 324/EEC.4. The nall not be placed on the market un r 2010, as a constituent of mixture at of MDI for supply to the general on the market that the packaging: equirements of Council Directive d without prejudice to other ickaging and labelling of substances evelop allergic reactions when using plems should avoid contact, including the poor ventilation unless a protectiving to standard EN 14387) is used.
the aerosol dispensers referred to Article 8 (1a) of Counterbook dispensers referred to in paragraphs 1 and 2 shat they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-M	ncil Directive 75/ 324/EEC.4. The nall not be placed on the market un r 2010, as a constituent of mixture at of MDI for supply to the general on the market that the packaging: equirements of Council Directive d without prejudice to other ickaging and labelling of substances evelop allergic reactions when using plems should avoid contact, including the poor ventilation unless a protectiving to standard EN 14387) is used.
Ad'-methylenediphenyl diisocyanate Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocy	r 2010, as a constituent of mixture at of MDI for supply to the general on the market that the packaging: equirements of Council Directive d without prejudice to other ackaging and labelling of substances welop allergic reactions when using a blems should avoid contact, including the proof of the proof
they conform to the requirements indicated. 4,4'-methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate; 2,4'- Methylen	r 2010, as a constituent of mixture: at of MDI for supply to the general on the market that the packaging: equirements of Council Directive d without prejudice to other ackaging and labelling of substances evelop allergic reactions when using olems should avoid contact, including the proor ventilation unless a protection ing to standard EN 14387) is used.
Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate; 2,2'-M	nt of MDI for supply to the general on the market that the packaging: equirements of Council Directive d without prejudice to other ckaging and labelling of substances evelop allergic reactions when using plems should avoid contact, including the poor ventilation unless a protectiving to standard EN 14387) is used.
including the following specific isomers: 4,4'- Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate (b) is marked visibly, legibly and indelibly as follows, and Community legislation concerning the classification, pac mixtures: "— Persons already sensitised to diisocyanates may dev product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 accordir way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	nt of MDI for supply to the general on the market that the packaging: equirements of Council Directive d without prejudice to other ckaging and labelling of substances evelop allergic reactions when using plems should avoid contact, including the poor ventilation unless a protectiving to standard EN 14387) is used.
Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate 2,2'- Methylene	on the market that the packaging: equirements of Council Directive d without prejudice to other ickaging and labelling of substances evelop allergic reactions when using elems should avoid contact, including the poor ventilation unless a protectiving to standard EN 14387) is used.
Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate (a) contains protective gloves which comply with the rec 89/686/EEC; (b) is marked visibly, legibly and indelibly as follows, and Community legislation concerning the classification, pac mixtures: "— Persons already sensitised to diisocyanates may dev product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 accordir way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands) Waterbezwaarlijkheid 1	equirements of Council Directive d without prejudice to other ickaging and labelling of substances welop allergic reactions when using olems should avoid contact, including foor ventilation unless a protectiving to standard EN 14387) is used.
Methylenediphenyl diisocyanate Wethylenediphenyl diisocyanate B9/686/EEC; (b) is marked visibly, legibly and indelibly as follows, and Community legislation concerning the classification, pac mixtures: "— Persons already sensitised to diisocyanates may dev product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot Wational legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	d without prejudice to other sckaging and labelling of substances welop allergic reactions when using blems should avoid contact, includir f poor ventilation unless a protectiving to standard EN 14387) is used.2
(b) is marked visibly, legibly and indelibly as follows, and Community legislation concerning the classification, pac mixtures: "— Persons already sensitised to diisocyanates may dev product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	exclaging and labelling of substances exclop allergic reactions when using elems should avoid contact, including f poor ventilation unless a protective ing to standard EN 14387) is used.
mixtures: "— Persons already sensitised to diisocyanates may dev product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands	velop allergic reactions when using plems should avoid contact, including f poor ventilation unless a protective ing to standard EN 14387) is used.
"— Persons already sensitised to diisocyanates may dev product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands	elems should avoid contact, including foor ventilation unless a protectiving to standard EN 14387) is used.
product. — Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands	elems should avoid contact, including foor ventilation unless a protectiving to standard EN 14387) is used.
— Persons suffering from asthma, eczema or skin proble dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands	f poor ventilation unless a protectiving to standard EN 14387) is used.2
dermal contact, with this product. — This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	f poor ventilation unless a protectiving to standard EN 14387) is used.2
— This product should not be used under conditions of mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot way of derogation app	ing to standard EN 14387) is used.2
mask with an appropriate gas filter (i.e. type A1 according way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	ing to standard EN 14387) is used.2
Way of derogation, paragraph 1(a) shall not apply to hot National legislation The Netherlands Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	
Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	
Soudaflex 40 FC Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	
Waste identification (the Netherlands): KGA category 04 Netherlands) Waterbezwaarlijkheid 1	
Netherlands) Waterbezwaarlijkheid 1	
Waterbezwaarlijkheid 1	
<u>xylene</u>	
SZW - List of reprotoxic Possibly hazardous to the foetus	-
substances (development)	
Substances (development)	
National legislation Germany	
Soudaflex 40 FC	
WGK 2; Classification water polluting based on the components in compliance with Verwaltungs	svorschrift wassergefährdende
Stoffe (VwVwS) of 27 July 2005 (Anhang 4)	
4,4'-methylenediphenyl d <mark>iisocyanate</mark>	
MAK - Krebserzeugend 4	
Kategorie	
Schwangerschaft Gruppe C	
	la atanahan da en
MAK 8-Stunden-Mittelwert Diphenylmethan-4,4'-diisocyanat (MDI) (einatembare Fraktion); 0.05 mg/m³; gemessen als	s einatembare Fraktion (vgl.
mg/m³ Abschn. Vd) S. 191)	
TA-Luft 5.2.5; I	
5.2.5	
xylene	
Schwangerschaft Grup <mark>pe D</mark>	
MAK 8-Stunden-Mittelwert Xylol (alle Isomeren); 100 ppm	
ppm	
MAK 8-Stunden-Mittelwert Xylol (alle Isomeren); 440 mg/m³	
mg/m³	
TA-Luft 5.2.5; I	
<u>ethylbenzene</u>	
MAK - Krebserzeugend 4	
MAK - Krebserzeugend 4 Kategorie	
MAK - Krebserzeugend 4 Kategorie	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert Ethylbenzol; 20 ppm	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm Ethylbenzol; 20 ppm	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert Ethylbenzol; 88 mg/m³	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ Ethylbenzol; 20 ppm Ethylbenzol; 88 mg/m³	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert Ethylbenzol; 20 ppm MAK 8-Stunden-Mittelwert Ethylbenzol; 88 mg/m³	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft 4 Kategorie C MAK 8-Stunden-Mittelwert Ethylbenzol; 20 ppm ppm Sthylbenzol; 88 mg/m³ TA-Luft 5.2.5; I	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ Ethylbenzol; 20 ppm Ethylbenzol; 88 mg/m³	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft 4 Kategorie C MAK 8-Stunden-Mittelwert Ethylbenzol; 20 ppm Ethylbenzol; 88 mg/m³ TA-Luft 5.2.5; I	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft S.2.5; I National legislation France Soudaflex 40 FC	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft Soudaflex 40 FC Son for revision: ATP4 Water Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert Ethylbenzol; 20 ppm ppm MAK 8-Stunden-Mittelwert Ethylbenzol; 88 mg/m³ mg/m³ Publication date: 2002-04-05	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft National legislation France Soudaflex 40 FC	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft S.2.5; I National legislation France Soudaflex 40 FC son for revision: ATP4 Publication date: 2002-04-05	
MAK - Krebserzeugend Kategorie Schwangerschaft Gruppe C MAK 8-Stunden-Mittelwert ppm MAK 8-Stunden-Mittelwert mg/m³ TA-Luft S.2.5; I National legislation France Soudaflex 40 FC Ton for revision: ATP4 Author Schwangerschaft Gruppe C Ethylbenzol; 20 ppm ppm Schwangerschaft Gruppe C Ethylbenzol; 20 ppm ppm Schwangerschaft Gruppe C Ethylbenzol; 88 mg/m³ Publication date: 2002-04-05	

No data available

4,4'-methylenediphenyl diisocyanate

Catégorie cancérogène C2

National legislation Belgium

Soudaflex 40 FC

No data available

Other relevant data

Soudaflex 40 FC

No data available

4,4'-methylenediphenyl diisocyanate

	IARC - classification	3; 4,4'-methylenediphenyl diiso	ocyanate a	and polymeric 4,4'-methylenedi	iphenyl diisocyanate	2
<u>X\</u>	<u>/lene</u>					
	TLV - Carcinogen	Xylene (all isomers); A4			4	
	IARC - classification	3; Xylenes				
et	thylbenzene					
	TLV - Carcinogen	Ethyl benzene; A3				
	IARC - classification	2B; Ethylbenzene				

15.2. Chemical safety assessment

No chemical safety assessment is required.

SECTION 16: Other information

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

- 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.
- H351 Suspected of causing cancer.
- H373 May cause damage to the lungs 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.
- H412 Harmful to aquatic life with long lasting effects.
- (*) = INTERNAL CLASSIFICATION BY BIG
- PBT-substances = persistent, bioaccumulative and toxic substances
- CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits CLP

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

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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