

Soudal Carbond 955 DG**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier:**

Product name : Soudal Carbond 955 DG
Product type REACH : Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against:**1.2.1 Relevant identified uses**

Sealant
polyurethane

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

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
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.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

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

Xi; R36/38 - Irritating to eyes and skin.

R42 - May cause sensitisation by inhalation.

R52-53 - Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:**Labelling according to Regulation EC No 1272/2008 (CLP)**

Classification and labelling according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008 and after evaluation of available test data

Soudal Carbond 955 DG



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. |
| H412 | Harmful to aquatic life with long lasting effects. |

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 and eye protection/face protection. |
| 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. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulation. |

Supplemental information

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

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

Labels



Harmful

Contains: 4,4'-methylenediphenyl diisocyanate.

R-phrases

- | | |
|-------|--|
| 36/38 | Irritating to eyes and skin |
| 42 | May cause sensitisation by inhalation |
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

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) |
| 61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |
| (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

May produce an allergic reaction

DSD/DPD

May produce an allergic reaction

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

Reason for revision: ATP4

Publication date: 2008-07-27

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Revision number: 0400

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3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (01-2119456620-43)		1%<C<5%	Xn; R65 R66	Asp. Tox. 1; H304	(1)(10)	UVCB
4,4'-methylenediphenyl diisocyanate (01-2119457014-47)	101-68-8 202-966-0	0.1%<C<1%	Carc. Cat. 3; R40 Xn; R20 - 48/20 Xi; R36/37/38 R42/43	Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)(8)(10)	Constituent
dibutyltin dichloride (01-2119496066-31)	683-18-1 211-670-0	0.025%<C<0.1%	Muta. Cat. 3; R68 Repr. Cat. 2; R60 - 61 T+; R26 T; R25 - 48/25 Xn; R21 C; R34 R43 N; R50-53	Muta. 2; H341 Repr. 1B; H360FD Acute Tox. 1; H330 Acute Tox. 3; H301 STOT SE 1; H370 STOT RE 1; H372 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(4)(6)(8)(9)(10)	Constituent

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

(2) Substance with a Community workplace exposure limit

(4) Enumerated in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No. 1907/2006)

(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

(9) M-factor, 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:

If you feel unwell, seek medical advice.

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. Do not apply neutralizing agents. 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:

Headache.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

No data available.

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:

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5.1.1 Suitable extinguishing media:

Water spray. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours. On heating: formation of small quantities of hydrogen cyanide, isocyanates. Reacts with water (moisture) release of carbon dioxide and pressure build-up may cause closed container to burst.

5.3 Advice for firefighters:

5.3.1 Instructions:

Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain leaking substance. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: room temperature. Store at room temperature. Store in a dry area. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, water/moisture, (strong) acids, (strong) bases, alcohols, amines.

7.2.3 Suitable packaging material:

Synthetic material.

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

The Netherlands

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Difenylmethaan-4,4'-diisocynaat	Short time value	0.02 ppm 0.21 mg/m ³	Private occupational exposure limit value
	Time-weighted average exposure limit 8 h	0.0048 ppm 0.05 mg/m ³	Private occupational exposure limit value
Tinverbindingen (organisch)(als Sn)	Short time value	0.2 mg/m ³ (a.37)	Private occupational exposure limit value; a.37: as Sn
	Time-weighted average exposure limit 8 h	0.1 mg/m ³ (a.37)	Private occupational exposure limit value; a.37: as Sn

Belgium

4,4'-Diisocyanate de diphénylméthane (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm 0.052 mg/m ³	
Etain (composés organiques de) (en Sn)	Short time value	0.2 mg/m ³	
	Time-weighted average exposure limit 8 h	0.1 mg/m ³	

USA (TLV-ACGIH)

Methylene bisphenyl isocyanate (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm	TLV - Adopted Value
Tin organic compounds, as Sn	Short time value	0.2 mg/m ³	TLV - Adopted Value
	Time-weighted average exposure limit 8 h	0.1 mg/m ³	TLV - Adopted Value

Germany

4,4'-Methylendiphenyldiisocyanat	Time-weighted average exposure limit 8 h	0.05 mg/m ³	TRGS 900
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France

4,4'-Diisocyanate de diphénylméthane	Short time value	0.02 ppm 0.2 mg/m ³	VL: Valeur non réglementaire indicative
	Time-weighted average exposure limit 8 h	0.01 ppm 0.1 mg/m ³	VL: Valeur non réglementaire indicative
Etain (composés organiques d'), en Sn	Short time value	0.2 mg/m ³	VL: Valeur non réglementaire indicative
	Time-weighted average exposure limit 8 h	0.1 mg/m ³	VL: Valeur non réglementaire indicative

UK

Isocyanates, all (as -NCO) Except methyl isocyanate	Short time value	0.07 mg/m ³	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	0.02 mg/m ³	Workplace exposure limit (EH40/2005)
Tin compounds, organic, except Cyhexatin (ISO), (as Sn)	Short time value	0.2 mg/m ³	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	0.1 mg/m ³	Workplace exposure limit (EH40/2005)

b) National biological limit values

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

8.1.2 Sampling methods

Product name	Test	Number
4,4'-Methylene Bisphenyl Isocyanate (MDI) (Isocyanates)	NIOSH	5521
4,4'-Methylenebis(phenylisocyanate)	NIOSH	5525
Kerosene (Naphthas)	NIOSH	1550
Methylene Bisphenyl Isocyanate	OSHA	47
Tin (Organic Cpds) (as Sn) (Organotin Compounds)	NIOSH	5504

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

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

8.1.4 DNEL/PNEC values

DNEL - Workers

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
			No data available

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4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	50 mg/kg bw/day	
	Acute systemic effects inhalation	0.1 mg/m ³	
	Acute local effects dermal	28.7 mg/cm ²	
	Acute local effects inhalation	0.1 mg/m ³	
	Long-term systemic effects inhalation	0.05 mg/m ³	
	Long-term local effects inhalation	0.05 mg/m ³	

dibutyltin dichloride

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.01 mg/m ³	
	Acute systemic effects inhalation	0.07 mg/m ³	
	Long-term systemic effects dermal	0.2 mg/kg bw/day	
	Acute systemic effects dermal	1 mg/kg bw/day	

DNEL - General population

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
			No data available

4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute systemic effects dermal	25 mg/kg bw/day	
	Acute systemic effects inhalation	0.05 mg/m ³	
	Acute -systemic effects oral	20 mg/kg bw/day	
	Acute local effects dermal	17.2 mg/cm ²	
	Acute local effects inhalation	0.05 mg/m ³	
	Long-term systemic effects inhalation	0.025 mg/m ³	
	Long-term local effects inhalation	0.025 mg/m ³	

dibutyltin dichloride

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.003 mg/m ³	
	Acute systemic effects inhalation	0.02 mg/m ³	
	Long-term systemic effects dermal	0.08 mg/kg bw/day	
	Acute systemic effects dermal	0.5 mg/kg bw/day	
	Long-term systemic effects oral	0.002 mg/kg bw/day	
	Acute -systemic effects oral	0.01 mg/kg bw/day	

PNEC

4,4'-methylenediphenyl diisocyanate

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

dibutyltin dichloride

Compartments	Value	Remark
Fresh water	0.000843 mg/l	
Salt water	0.000843 mg/l	
Aqua (intermittent releases)	0.00843 mg/l	
Wastewater treatment plant	0.115 mg/l	
Fresh water sediment	0.006526 mg/kg sediment dw	
Marine water sediment	0.0006526 mg/kg sediment dw	
Soil	0.00181 mg/kg soil dw	
Food	0.2 mg/kg food	

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.

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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.

- materials (good resistance)

Butyl rubber, chloroprene rubber, natural rubber, nitrile rubber, PVA.

c) Eye protection:

Face shield.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Paste
Odour	Characteristic odour
	Mild odour
Odour threshold	No data available
Colour	Black
Particle size	No data available
Explosion limits	0.6 - 7 vol %
Flammability	Insufficient data available on direct fire hazard (flashpoint > 60°C)
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	> 190 °C
Flash point	>90 °C
Evaporation rate	No data available
Vapour pressure	No data available
Relative vapour density	Not applicable
Solubility	water ; reacts
Relative density	1.2
Decomposition temperature	> 140 °C
Auto-ignition temperature	> 200 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

Physical hazards

No physical hazard class

9.2 Other information:

Absolute density	1200 kg/m ³
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SECTION 10: Stability and reactivity

10.1 Reactivity:

No data available.

10.2 Chemical stability:

Unstable on exposure to moisture.

10.3 Possibility of hazardous reactions:

Reacts exothermically with (strong) acids/bases, amines and alcohols.

10.4 Conditions to avoid:

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Keep away from naked flames/heat.

10.5 Incompatible materials:

Water/moisture, (strong) acids, (strong) bases, alcohols, amines.

10.6 Hazardous decomposition products:

On heating: formation of small quantities of hydrogen cyanide, isocyanates. Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours. Reacts with water (moisture) release of carbon dioxide and pressure build-up may cause closed container to burst.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Soudal Carbond 955 DG

No (test) data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 401	>5000 mg/kg bw		Rat	Male/female	Read-across
Dermal	LD50	Equivalent to OECD 402	>5000 mg/kg bw		Rabbit	Male/female	Read-across
Inhalation (aerosol)	LC50	Equivalent to OECD 403	>5000 mg/m ³ air	8 h	Rat	Male	Read-across
Inhalation (vapours)	LC50	Equivalent to OECD 403	4467 ppm	8 h	Rat	Male	Read-across

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Other	>2000 mg/kg bw		Rat	Male/female	Read-across
Dermal	LD50	Equivalent to OECD 402	>9400 mg/kg bw	24 h	Rabbit	Male/female	Read-across
Inhalation (aerosol)	LC50	OECD 403	>2.24 mg/l	1 h	Rat	Male/female	Experimental value

dibutyltin dichloride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Other	219 mg/kg bw		Rat	Male/female	Experimental value
							Data waiving
Inhalation (aerosol)	LC50	Other	59 mg/m ³ air	4 h	Rat	Male/female	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Soudal Carbond 955 DG

No (test) data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Read-across
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across

4,4'-methylenediphenyl diisocyanate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Irritating				Human	Weight of evidence
Skin	Irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across
Skin	Irritating				Human	Weight of evidence
Inhalation	Irritating				Human	Weight of evidence

dibutyltin dichloride

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Corrosive	Other		24; 48; 72 hours	Rabbit	Experimental value
Skin	Corrosive	Other	4 h	3 days	Rabbit	Experimental value

Classification is based on the relevant ingredients

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Conclusion

Causes skin irritation.
Causes serious eye irritation.

Respiratory or skin sensitisation

Soudal Carbond 955 DG

No (test)data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig	Male/female	Read-across

4,4'-methylenediphenyl diisocyanate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Sensitizing						Literature study
Inhalation	Sensitizing				Guinea pig	Female	Experimental value
Inhalation	Sensitizing	Other			Rat	Male	Experimental value

dibutyltin dichloride

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Dermal	Sensitizing	OECD 406	24 h	24; 48 hours	Guinea pig	Male/female	Read-across
	Sensitizing	OECD 429		1; 3; 6 days	Mouse	Female	Read-across

Classification is based on the relevant ingredients

Conclusion

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

Specific target organ toxicity

Soudal Carbond 955 DG

No (test)data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	Equivalent to OECD 422	>=1000 mg/kg bw/day		No effect		Rat	Male/female	Read-across
Oral	NOAEL	Equivalent to OECD 408	>=5000 mg/kg bw/day		No effect		Rat	Male/female	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	>=2200 mg/m³ air		No effect		Rat	Female	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	275 mg/m³ air		No effect		Rat	Male	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	>10400 mg/m³ air		No effect	13 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Inhalation (aerosol)	NOAEC	Equivalent to OECD 453	0.2 mg/m³		No effect	104 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across
Inhalation (aerosol)	LOAEC	Equivalent to OECD 453	1 mg/m³	Respiratory tract		104 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across

dibutyltin dichloride

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	OECD 421	0.3-0.4 mg/kg bw/day	Thymus	No effect	28 day(s)	Rat	Male/female	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Soudal Carbond 955 DG

No (test)data on the mixture available

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hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Read-across
Negative	OECD 471	Bacteria (S.typhimurium)	No effect	Read-across
Negative	Equivalent to OECD 479	Chinese hamster ovary (CHO)	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Chinese hamster lung fibroblasts	No effect	Read-across

4,4'-methylenediphenyl diisocyanate

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

dibutyltin dichloride

Result	Method	Test substrate	Effect	Value determination
Positive	Equivalent to OECD 473	Human lymphocytes		Experimental value
Negative	Equivalent to OECD 471	Yeast (S. cerevisiae)		Experimental value
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	Equivalent to OECD 476	Chinese hamster lung fibroblasts		Experimental value

Mutagenicity (in vivo)

Soudal Carbond 955 DG

No (test)data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse	Male/female	Bone marrow	Read-across

4,4'-methylenediphenyl diisocyanate

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	OECD 474	3 h	Rat	Male		Experimental value

dibutyltin dichloride

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Positive	OECD 474		Mouse	Male/female	Bone marrow	Experimental value

Carcinogenicity

Soudal Carbond 955 DG

No (test)data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	>2200 mg/m ³ air	105 weeks (6h/day, 5 days/week)	Rat	Female	Read-across		No effect

4,4'-methylenediphenyl diisocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Inhalation (aerosol)	NOAEC	Equivalent to OECD 453	1 mg/m ³	104 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across		No effect
Inhalation (aerosol)	LOAEL	Equivalent to OECD 453	6 mg/m ³	104 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across	Respiratory tract	

dibutyltin dichloride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination	Organ	Effect
Oral	NOAEL	Other	152 ppm	2 year(s)	Mouse	Male/female	Read-across		Tumor formation

Reproductive toxicity

Soudal Carbond 955 DG

No (test)data on the mixture available

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hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	>=5220 mg/m³ air		Rat	Female	Maternal toxicity		Weight of evidence
	NOAEL	Equivalent to OECD 414	>=5220 mg/m³ air		Rat	Male/female	Fetotoxicity		Weight of evidence
	NOAEL (F1)	Equivalent to OECD 415	750 mg/kg bw/day	13 weeks (daily)	Rat	Male/female		General	Read-across
Effects on fertility	NOAEL	OECD 414	>=5220 mg/m³		Rat	Female	No effect		Read-across
	NOAEL	Other	>=1575 mg/m³		Rat		No effect		Read-across

4,4'-methylenediphenyl diisocyanate

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEL (P)	OECD 414	4 mg/m³	10 days (6h/day)	Rat	Female	Maternal toxicity		Read-across
	NOAEL (F1)	OECD 414	4 mg/m³	10 days (6h/day)	Rat	Female	Teratogenicity		Read-across

dibutyltin dichloride

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEL (F1)	OECD 414	5 mg/kg bw/day	10 day(s)	Rat		No effect		Experimental value
Maternal toxicity	NOAEL (P)	OECD 414	1 mg/kg bw/day	10 day(s)	Rat		No effect		Experimental value
Effects on fertility	NOAEL (P)	OECD 421	1.7-2.4	28 day(s)	Rat	Male/female	Reproductive performance		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

Soudal Carbond 955 DG

No (test)data on the mixture available

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
	Equivalent to OECD 404		Skin	Skin dryness or cracking		Rabbit		Read-across

dibutyltin dichloride

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
LOAEL	Other	2.5 mg/kg soil dw	Thymus	Weakening of the immune system		Rat		Experimental value
	Other		Thymus	Weakening of the immune system		Rat	Male	Experimental value

Chronic effects from short and long-term exposure

Soudal Carbond 955 DG

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

SECTION 12: Ecological information

12.1 Toxicity:

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No (test)data on the mixture available

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Soudal Carbond 955 DG

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/l	96 h	Oncorhynchus mykiss	Semi-static	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EC50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Static system		Experimental value; GLP
Long-term toxicity fish	NOEL		0.173 mg/l	28 day(s)	Pisces			QSAR; Reproduction
Long-term toxicity aquatic invertebrates	NOEL		1.22 mg/l	21 day(s)	Crustacea			QSAR; Reproduction

4,4'-methylenediphenyl diisocyanate

	Parameter	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 aquatic plants	EC50	OECD 201	> 1640 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	>=10 mg/l	21 day(s)	Daphnia magna	Semi-static	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

dibutyltin dichloride

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	>4 mg/l	96 h	Brachydanio rerio	Semi-static	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	OECD 202	0.843 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	4.4 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value
Long-term toxicity aquatic invertebrates	NOEC	Other	2 µg/l	25 day(s)	Mytilus edulis	Static system	Salt water	Experimental value
Toxicity aquatic micro-organisms	EC0		2.5 mg/l	16 h	Pseudomonas putida			
	IC50	Other	11.5 - 35.6 mg/l	24 h	Activated sludge		Fresh water	Experimental value

Classification is based on the relevant ingredients

Conclusion

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability:

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	69 %	28 day(s)	Experimental value

4,4'-methylenediphenyl diisocyanate

Biodegradation water

Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability: Modified MITI Test (II)	0 %	28 day(s)	Read-across

dibutyltin dichloride

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	6 %	28 day(s)	Experimental value

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		112 - 159	128 day(s)	Pisces	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
		> 3		

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

dibutyltin dichloride

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		394	672 h	Poecilia reticulata	
		10	336 h	Cyprinus carpio	

Log Kow

Method	Remark	Value	Temperature	Value determination
		<2		

Conclusion

Does not contain bioaccumulative component(s)

12.4 Mobility in soil:

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	30.7 %	0 %	45.7 %	20.9 %	2.7 %	Calculated value

4,4'-methylenediphenyl diisocyanate

Volatility (Henry's Law constant H)

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

Conclusion

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

12.5 Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

Soudal Carbond 955 DG

Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

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

Ground water

Ground water pollutant

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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.

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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

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

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

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

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:

Transport	Not subject
-----------	-------------

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

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Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	

Sea (IMDG/IMSBC)

14.1 UN number:	
Transport	Not subject
14.2 UN proper shipping 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	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 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	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

SECTION 15: Regulatory information

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

European legislation:

REACH Candidate list

Contains component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
- hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	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; (d) hazard class 5.1.	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 market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly,

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		<p>legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</p> <p>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";</p> <p>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.'</p>
dibutyltin dichloride	Organostannic compounds	<p>1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:</p> <p>(a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;</p> <p>(b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;</p> <p>(c) any totally or partly submerged appliance or equipment.3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.4. Tri-substituted organostannic compounds:</p> <p>a) Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.</p> <p>b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.5. Dibutyltin (DBT) compounds:</p> <p>a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.</p> <p>b) Articles and mixtures not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.</p> <p>c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:</p> <ul style="list-style-type: none"> — one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, — paints and coatings containing DBT compounds as catalysts when applied on articles, — soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, — fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, — outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades, <p>d) By way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004.6. Dioctyltin (DOT) compound:</p> <p>(a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin:</p> <ul style="list-style-type: none"> — textile articles intended to come into contact with the skin, — gloves, — footwear or part of footwear intended to come into contact with the skin, — wall and floor coverings, — childcare articles, — female hygiene products, — nappies, — two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits). <p>(b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.</p>
dibutyltin dichloride	Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows: - Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 - Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none"> — as substances, — as constituents of other substances, or, — in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: <ul style="list-style-type: none"> — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, — the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". 2. By way of derogation, paragraph 1 shall not apply to: <p>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</p> <p>(b) cosmetic products as defined by Directive 76/768/EEC;</p> <p>(c) the following fuels and oil products:</p>
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		<ul style="list-style-type: none"> — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Directive 1999/45/EC; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.
4,4'-methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-Methylenediphenyl diisocyanate; 2,4'-Methylenediphenyl diisocyanate; 2,2'-Methylenediphenyl diisocyanate	<p>1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:</p> <p>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;</p> <p>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:</p> <p>"— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</p> <p>— Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</p> <p>— 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.</p> <p>2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.</p>

Reference legislation

See column 1: 3.

See column 1: 20.

See column 1: 30

See column 1: 56.

Recommendations REACH annex XVII

- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Volatile organic compounds (VOC)

<5 %

National legislation The Netherlands

Soudal Carbond 955 DG

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	8

dibutyltin dichloride

SZW - List of reprotoxic substances (fertility)	May have an effect on fertility
SZW - List of reprotoxic substances (development)	Hazardous to the foetus

National legislation Germany

Soudal Carbond 955 DG

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

TA-Luft	TA-Luft Klasse 5.2.5/I
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4,4'-methylenediphenyl diisocyanate

TRGS905 - Krebserzeugend	3
TRGS905 - Erbgutverändernd	-
TRGS905 - Fruchtbarkeitsgefährdend	-
TRGS905 - Fruchtschädigend	-
MAK - Krebserzeugend Kategorie	4
TA-Luft	TA-Luft Klasse 5.2.5/I
Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert mg/m³	Diphenylmethan-4,4'-diisocyanat (MDI) (eintatembare Fraktion); 0.05 mg/m³; gemessen als eintatembare Fraktion (vgl. Abschn. Vd) S. 191)

dibutyltin dichloride

TA-Luft	TA-Luft Klasse 5.2.7.1.2
Schwangerschaft Gruppe	D
MAK 8-Stunden-Mittelwert mg/m³	Zinnverbindungen, organische (als Sn berechnet); 0,1 mg/m³; als Sn berechnet gemessen als eintatembare Fraktion (vgl. Abschn. Vd) S. 191)

National legislation France

Soudal Carbond 955 DG

No data available

Reason for revision: ATP4

Publication date: 2008-07-27

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Revision number: 0400

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Soudal Carbond 955 DG

4,4'-methylenediphenyl diisocyanate

Catégorie cancérigène

C2

National legislation Belgium

Soudal Carbond 955 DG

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Information based on classification according to CLP

Full text of any R-phrases referred to under headings 2 and 3:

R20 Harmful by inhalation
 R21 Harmful in contact with skin
 R25 Toxic if swallowed
 R26 Very toxic by inhalation
 R34 Causes burns
 R36/37/38 Irritating to eyes, respiratory system and skin
 R36/38 Irritating to eyes and skin
 R40 Limited evidence of a carcinogenic effect
 R42 May cause sensitisation by inhalation
 R42/43 May cause sensitisation by inhalation and skin contact
 R43 May cause sensitisation by skin contact
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
 R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed
 R50 Very toxic to aquatic organisms
 R52 Harmful to aquatic organisms
 R53 May cause long-term adverse effects in the aquatic environment
 R60 May impair fertility
 R61 May cause harm to the unborn child
 R65 Harmful: may cause lung damage if swallowed
 R66 Repeated exposure may cause skin dryness or cracking
 R68 Possible risk of irreversible effects

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

H301 Toxic if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H341 Suspected of causing genetic defects.
 H351 Suspected of causing cancer.
 H360FD May damage fertility or the unborn child: characteristic syndrome of oropharyngeal malformations.
 H370 Causes damage to thymus if swallowed.
 H372 Causes damage to the thymus through prolonged or repeated exposure.
 H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 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)

M-factor

dibutyltin dichloride	10	CLP Annex VI (ATP 1)
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Specific concentration limits CLP

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

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dibutyltin dichloride	C ≥ 5%	Skin Corr. 1B ;H314	CLP Annex VI (ATP 1)
	0.01% ≤ C < 3%	Eye Irrit. 2 ;H319	CLP Annex VI (ATP 1)
	3% ≤ C < 5%	Eye Dam. 1 ;H318	CLP Annex VI (ATP 1)
	0.01% ≤ C < 5%	Skin Irrit. 2 ;H315	CLP Annex VI (ATP 1)

Specific concentration limits DSD

4,4'-methylenediphenyl diisocyanate	C ≥ 5 %	Xi; R36/37/38	Annex VI
	C ≥ 0,1 %	R42	Annex VI
dibutyltin dichloride	C ≥ 10 %	C; R34	Annex VI
	0,01 % ≤ C < 10 %	Xi; R36/38	Annex VI
	C ≥ 2,5 %	N; R50-53	Annex VI
	0,25 % ≤ C < 2,5 %	N; R51-53	Annex VI
	0,025 % ≤ C < 0,25 %	R52-53	Annex VI

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