

SAFETY DATA SHEET

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

SOUDAL HAND HELD FIXING FOAM B3

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

1.1 Product identifier:

: SOUDAL HAND HELD FIXING FOAM B3 Product name

Registration number REACH : Not applicable (mixture) Product type REACH : Mixture (Organic)

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

1.2.1 Relevant identified uses

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 Tel: +32 14 42 42 31 Fax: +32 14 44 39 71 msds@soudal.com

Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout Tel: +32 14 42 42 31 Fax: +32 14 44 39 71 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 statement code(s)
Flam. Aerosol	categ <mark>ory 1</mark>	H222: Extremely flammable aerosol.
Carc.	category 2	H351: Suspected of causing cancer.
Acute Tox.	categ <mark>ory 4</mark>	H332: Harmful if inhaled.
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	categ <mark>ory 3</mark>	H335: May cause respiratory irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Resp. Sens.	categ <mark>ory 1</mark>	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	categ <mark>ory 1</mark>	H317: May cause an allergic skin reaction.

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

Carc. Cat. 3; R40 - Limited evidence of a carcinogenic effect

F+; R12 - Extremely flammable.

Xn; R20 - 48/20 - Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xi; R36/37/38 - Irritating to eyes, respiratory system and skin.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be © BIG vzw

Reason for revision: CLP

Revision number: 0300

Publication date: 2002-04-11 Date of revision: 2012-04-11 Reference number:

Product number: 32972 1/19

R42/43 - May cause sensitisation by inhalation and skin contact.

2.2 Label elements:

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







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

Signal word	Danger
H-statements	
H222	Extremely flammable aerosol.
H351	Suspected of causing cancer.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P251	Pressurized container: Do not pierce or burn, even after use.
P280	Wear protective gloves and eye protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/ 122°F.
P501	Dispose of contents/container to manufacturer/competent authority.

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.

Publication date: 2002-04-11 Date of revision: 2012-04-11

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

Labels





Contains: polymethylene polyphenyl isocyanate; 4,4'-methylene diphenyl diisocyanate.

R-phrases

20	Harm <mark>ful by inhalation</mark>
40	Limited evidence of a carcinogenic effect
36/37/38	Irrita <mark>ting to eyes, respiratory system and ski</mark> n
42/43	May cause sensitisation by inhalation and skin contact
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
ohrases	

S-p

Reason for revision: CLP

36/37 Wear suitable protective clothing and gloves

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

51 Use only in well-ventilated areas

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

Additional recommendations

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Revision number: 0300 Product number: 32972 2/19

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:

DSD/DPD

May be ignited by sparks

Gas/vapour spreads at floor level: ignition hazard Aerosol may explode under the effect of heat

CLP

May be ignited by sparks

Gas/vapour spreads at floor level: ignition hazard Aerosol may explode under the effect of heat

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No)		CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
ris(2-chloro-1-methylethyl) phosp 2119447716-31)	ohate (01-	13674-84-5 237-158-7	1% <c<25%< th=""><th>Xn; R22</th><th>Acute Tox. 4; H302</th><th>(1)(10)</th><th>Constituent</th></c<25%<>	Xn; R22	Acute Tox. 4; H302	(1)(10)	Constituent
polymethylene polyphenyl isocy <mark>a</mark> r	nate (-)	9016-87-9	C>25%	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)(10)	Constituent
4,4'-methylenediphenyl diisocyan: 2119457014-47)	ate (01-	101-68-8 202-966-0	1% <c<25%< td=""><td>Xn; R20 - 48/20 Xi; R36/37/38 R42/43</td><td>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</td><td>(1)(2)(8)(10)</td><td>Constituent</td></c<25%<>	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
dimethyl ether (01-2119472128-3	37)	115-10-6 204-065-8	1% <c<10%< td=""><td></td><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
oropane (-)		74-98-6 200-827-9	1% <c<10%< td=""><td></td><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
sobutane (-)		75-28-5 200-857-2	1% <c<10%< td=""><td></td><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(10)</td><td>Propellant</td></c<10%<>		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(10)	Propellant
(1,3-butadiene, conc<0.1%) (-)							

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

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.

Reason for revision: CLP Publication date: 2002-04-11
Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 3 / 19

⁽²⁾ Substance with a Community workplace exposure limit

⁽⁸⁾ Specific concentration limits, see heading 16

⁽¹⁰⁾ Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

After eve contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. 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:

Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible inflammation of the respiratory tract. Risk of lung oedema. Respiratory difficulties.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue. Lacrimation.

After ingestion:

Not applicable.

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:

Quantities of water. Polyvalent foam. BC powder. Carbon dioxide.

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 (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide). May polymerize on exposure to temperature rise. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

5.3 Advice for firefighters:

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Head/neck protection. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Head/neck protection. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill. 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. 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

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Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 4 / 19

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:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom. Keep out of direct sunlight. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

Aerosol

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.

Regulatory exposure limit (The Netherlands)

Dimethylether	Short time value		1500 mg/m³	
	Short time value, calculated		783 ppm	
	Time-weighted average expo	sure limit 8 h	950 mg/m³	
	Time-weighted average expo	sure limit, calculated	496 ppm	

Indicative exposure limit (the Netherlands)

Difenylmethaan-4,4'-diisocyanaat	Short time value	0.21 mg/m³
	Short time value, calculated	0.02 ppm
	Time-weighted average exposure limit 8 h	0.05 mg/m³
	Time-weighted average exposure limit, calculated	0.0048 ppm

Indicative exposure limit EU

Dimethylether	Short time value		- ppm	
	Time-weighted averag	e exposure limit 8 h	1000 ppm	
			1920 mg/m³	

Limit Value (Belgium)

Elittic value (Beiglaiti)		
4,4'-Diisocyanate de dip <mark>hénylméthane</mark> (MDI)	Short time value	- ppm - mg/m³
	Time-weighted average exposure limit 8 h	0.005 ppm 0.052 mg/m³
Oxyde de diméthyle	Short time value	- ppm - mg/m³
	Time-weighted average exposure limit 8 h	1000 ppm 1920 mg/m³
Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C4)	Short time value	- ppm - mg/m³
	Time-weighted average exposure limit 8 h	1000 ppm - mg/m³
	Short time value	- ppm - mg/m³
	Time-weighted average exposure limit 8 h	1000 ppm - mg/m³

TLV (USA)

Methylene bisphenyl isocya	anate (MDI)	Time-weighted average	exposur	re limit 8 h	0.005 ppm	
Aliphatic hydrocarbon gases	s - alkanes(C1-	Time-weighted average	exposur	re limit 8 h	1000 ppm	
C4)						

Reason for revision: CLP Publication date: 2002-04-11
Date of revision: 2012-04-11

 Revision number: 0300
 Product number: 32972
 5 / 19

TRGS	900	(Germany)

moo 700 (connany)					
Isobutan		Time-weighted averag	e exposure limit 8 h	1000 ppm 2400 mg/m³	
Dimethylether		Time-weighted averag	e exposure limit 8 h	1900 mg/m³	
4,4'-Methylendiphenyldi	isocyanat	Time-weighted averag	e exposure limit 8 h	0.05 mg/m ³	
Propan		Time-weighted averag	e exposure limit 8 h	1800 mg/m³	

Limit Value (France)

ziiiit vaido (i raiioo)					
4,4'-Diisocyanate de diph	nénylméthane	Short time value		0.02(5 min) ppm 0.2(5 min) mg/m ³	
		Time-weighted averag	e exposure limit 8 h	0.01 ppm 0.1 mg/m ³	
Oxyde de diméthyle		Short time value		- ppm - mg/m³	
		Time-weighted averag	e exposure limit 8 h	1000 ppm 1920 mg/m³	

Limit Value (UK)

Elithic Value (Oit)					
Isocyanates, all (as -NCO)	Short time value		1	-(-NCO) ppm	
				0.07(-NCO) mg/m ³	
	Time-weighted averag	e exposure limit 8 h		-(-NCO) ppm	
				0.02(-NCO) mg/m ³	
Dimethyl ether	Short time value			500 ppm	
				958 mg/m³	
	Time-weighted average	e exposure limit 8 h	-	400 ppm	
				766 mg/m³	

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
Isocyanates	NIOSH	5522
4,4'-Methylenebis(pheny <mark>lisocyanate)</mark>	NIOSH	5525
Methylene Bisphenyl Isoc <mark>yanate</mark>	OSHA	47
4,4-Methylene Bisphenyl <mark>Isocyanate (MDI) (Isocyanates)</mark>	NIOSH	5521
Isocyanates	NIOSH	5521

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

Workers

tris(2-chloro-1-methylethyl) phosphate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Acute systemic effects dermal	0.528 mg/kg bw/day	
	Acute systemic effects inhalation	0.93 mg/m³	
	Long-term systemic effects dermal	0.528 mg/kg bw/day	
	Long-term systemic effects inhalation	0.93 mg/m³	

4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Acute systemic effects dermal	50 mg/kg bw/day	
		Acute systemic effects inhalation	0.1 mg/m ³	
Ā		Acute local effects dermal	28.7 mg/cm ²	
		Acute local effects inhalation	0.1 mg/m³	
		Long-term systemic effects inhalation	0.05 mg/m³	
		Long-term local effects inhalation	0.05 mg/m³	

General population

Reason for revision: CLP Publication date: 2002-04-11
Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 6 / 19

tris(2-chloro-1-methylethyl) phosphate

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Acute systemic effects dermal	0.264 mg/kg bw/day	
		Acute systemic effects inhalation	0.23 mg/m ³	
		Acute -systemic effects oral	0.33 mg/kg bw/day	
		L <mark>ong-term systemic effect</mark> s dermal	0.264 mg/kg bw/day	
		L <mark>ong-term systemic effec</mark> ts inhalation	0.23 mg/m³	
		Long-term systemic effects oral	0.33 mg/kg bw/day	

4,4'-methylenediphenyl diisocyanate

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Acute systemic effects dermal	25 mg/kg bw/day	
		Acute systemic effects inhalation	0.05 mg/m³	
		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/m³	
		Long-term systemic effects inhalation	0.025 mg/m³	
		L <mark>ong-term local effects in</mark> halation	0.025 mg/m³	

PNEC

4,4'-methylenediphenyl diisocyanate

Compartments	Value	Remark
Fresh water	1 mg/l	
Marine water	<mark>0.1 mg/l</mark>	
aqua (intermittent rele <mark>ases)</mark>	10 mg/l	
STP	1 mg/l	
Soil	<mark>1 mg/kg s</mark> oil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

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

8.2.1 Appropriate engineering controls

Use spark-/explosionproo<mark>f appliances and lighting system. Keep</mark> away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

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

b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
LDPE (Low Density Poly Ethylene)	10 minutes	0.025 mm

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck 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	Aerosol Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Extremely flammable aerosol.
Log Kow	No data available
Dynamic viscosity	No data available

Reason for revision: CLP Publication date: 2002-04-11
Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 7 / 19

Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Relative vapour density	>1
Solubility	water; insoluble
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

Physical hazards

Flammable aerosol

9.2 Other information:

Absolute density	No data availabl	le	
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SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

May polymerize with many compounds e.g.: (strong) bases and amines. Reacts violently with (some) acids/bases.

10.4 Conditions to avoid:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5 Incompatible materials:

(strong) acids, (strong) bases.

10.6 Hazardous decomposition products:

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

SOUDAL HAND HELD FIXING FOAM B3

No (test)data on the mixture available

tris(2-chloro-1-methylethyl) phosphate

Route of exposure	Parameter		Method	Value	Exposure time	Species		Value determination
Oral	LD50			1011-1824 mg/kg bw		Rat	Male/female	Experimental value
Dermal	LD50		OECD 402	> 2000 mg/kg bw	24 h	Rabbit	Male/female	Experimental value
Inhalation (aerosol)	LC50		Equivalent to OECD 403	> 5 mg/l air	4 h	Rat	Male/female	Weight of evidence

Reason for revision: CLP Publication date: 2002-04-11
Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 8 / 19

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		> 10000 mg/kg		Rat		Literature study
Dermal	LD50		> 5000 mg/kg		Rabbit		Literature study
Inhalation (vapours)	LD50		10-20 mg/l	4 h			Literature study
,4'-methylenedip	henyl diisocy <mark>anat</mark>	<u>te</u>					
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 valu
imethyl ether		_					1
Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Inhalation	LC50		309 mg/l	4 h	Rat		Literature study
Inhalation	LC50		163991 ppm	4 h	Rat		Literature study
ropane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Inhalation	LC50		513 mg/l	4 h	Rat		literature
Inhalation	LC50		280000 ppm	4 h	Rat		literature
<u>obutane</u>							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
	LC50		> 50 mg/l	4 h	Rat		literature

Co

No (test)data on the mixture available

tris(2-chloro-1-methylethyl) phosphate

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

polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Irrita <mark>ting</mark>					Literature study
Skin	Irritat <mark>ing</mark>					Literature study
Inhalation	Irritat <mark>ing</mark>					Literature study

4,4'-methylenediphenyl diisocyanate

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

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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

Respiratory or skin sensitisation

SOUDAL HAND HELD FIXING FOAM B3

Reason for revision: CLP Publication date: 2002-04-11 Date of revision: 2012-04-11

Revision number: 0300 9/19 Product number: 32972

No (test)data on the mixture available

tris(2-chloro-1-methylethyl) phosphate

Route of exposure	Result	Method	 Observation time point	Species	Value determination
Skin	Not sensitizing	OECD 429		Mouse	Experimental value

polymethylene polyphenyl isocyanate

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

4,4'-methylenediphenyl diisocyanate

 + incurrence	ryr ansocyanacc					
Route of exposure	Result	Method	Observation time point	Species		Value determination
Skin	Sensitizing					Literature study
Inhalation	Sensitizin <mark>g</mark>			Guinea pig	Female	Experimental value
Inhalation	Sensitizing	Other		Rat	Male	Experimental value

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

May cause an allergic skin reaction.

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

Specific target organ toxicity

SOUDAL HAND HELD FIXING FOAM B3

No (test)data on the mixture available

tris(2-chloro-1-methylethyl) phosphate

Route of exposure	Paramet	er	Method	Value	Organ	Effect	Exposure time	Species	 Value determination
Oral	LOAEL		Equivalent to OECD 408	800 ppm	Liver	Weight gain	13 weeks (daily)	Rat	 Experimental value
Oral	NOAEL		Equivalent to OECD 408	2500 ppm		No effect	13 weeks (daily)	Rat	 Experimental value

polymethylene polyphenyl isocyanate

Route of	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value
exposure									determination
Inhalation									Literature study

4,4'-methylenediphenyl diisocyanate

Route of exposure	Paramet	er	Method	Value	Organ	Effect	Exposure time	Species		Value determination
Inhalation (aerosol)	NOAEC		Equivalent to OECD 453	0.2 mg/m³			104 weeks (6h/day, 5 days/week)	Rat	Male/femal e	Read-across
Inhalation (aerosol)	LOAEC		Equivalent to OECD 453	1 mg/m³	Respiratory tract		104 weeks (6h/day, 5 days/week)	Rat	Male/femal e	Read-across

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

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

Low sub-chronic toxicity by the oral route

Mutagenicity (in vitro)

SOUDAL HAND HELD FIXING FOAM B3

No (test)data on the mixture available

tris(2-chloro-1-methylethyl) phosphate

Result	Method	Test substrate	Effect	Value determination
Negative		Chinese hamster lung		Weight of evidence
		fibroblasts		
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Weight of evidence
Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y		Weight of evidence
		cells)		

4,4'-methylenediphenyl diisocyanate

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

Mutagenicity (in vivo)

SOUDAL HAND HELD FIXING FOAM B3

Reason for revision: CLP	Publication date: 2002-04-11
	Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 10 / 19

			S	OUD	A	L HA	١N) F	IEL	D F	IXI	١G	FO ₄	AM B3			
No ((test)data on	the mixtu	re av	railable													
tris(2-chloro-1-m	ethylethy	l) pho	osphate_													
	Result		Vleth			Exposure t	ime		Test su	ubstrat	е	Geno		Organ		alue deterr	
	Negative	4	175	alent to OEC	CD				Rat			Male	2		W	eight of ev	idence
	-methylenedi		isocy: Meth			F			T4	.144		C	4	b	h,	-11.4	
	Result		VIETN DECD			Exposure t 3 h	ime		Test su	ibstrat	<u>e</u>	Geno Male		Organ		alue deterr	
_	Negative		JECD	7474		511			Rat		_	iviale			C	perimenta	i value
Carcinoge	enicity																
	<u>L HAND HELD</u> (test)data on																
	methylene p					t									1_	——	
	Route of exposure	Parame	ter	Method		Value	E	xposui	re time	Specie	es	Geno	der	Value determination	Organ	Effect	i
	Inhalation									Rat			_	Literature study	,	Neop	lactic
	(aerosol)									Nat				Literature study		effect	
L	-methylenedi	iphenyl dii	isocy	anate		!									I	I	
	Route of	Parame		Method		Value	E	xposu	re time	Specie	es	Geno	der	Value	Organ	Effect	
	exposure													determination			
	Inhalation (aerosol)	NOAEC		Equivalent t OECD 453	0	1 mg/m³	(04 wee 5h/day ays/we	, 5	Rat		Male	e/female	Read-across		No ef	fect
-	Inhalation	LOAEL		Equivalent t	^	6 mg/m³		04 wee		Rat	-	Male	e/female	Read-across	Respirator	,	
	(aerosol)	LOALL		OECD 453	U	O IIIg/III		5h/day		Nat		Iviaic	z/Terriale	inead-across	tract	,	
							d	ays/we	eek)								
SOUDA No (L HAND HELD (test)data on	O FIXING F the mixtu	re av	ailable													
tris(2-chloro-1-m	ethylethy		ospnate arameter	NAC	thod	Value		Exposi	ıro	Species		Gender	Effect	Organ	Value	
			Pa	arameter	IVIE	tillou	value		time	лe	species		Geridei	Ellect	Organ		ination
	Developmen	tal toxicity	/ LC	DAEL (P)	OE	CD 416	99 mg,	kg bw	>10 we (daily)	eeks	Rat		Female	Body weight, organ weight, food	Female reproducti organ	Experin	
			NO	OAEL (P)	OE	CD 416	85 mg,	/kg bw	>10 we		Rat		Male	No effect		Experin value	nental
			NO	OAEL		uivalent to		ng/kg	70 day		Rat		Female	No effect		Experin	nental
4.41				1 -	OE	CD 414	bw									value	
4,4	-methylenedi	ipnenyi ali		arameter	Me	thod	Value		Exposu time	ıre	Species		Gender	Effect	Organ	Value	nination
-	Developmen	tal toxicity	/ NO	OAEL (P)	OE	CD 414	4 mg/r	n³	10 day		Rat		Female	Maternal		Read-a	
			NO	OAEL (F1)	OF	CD 414	4 mg/r	n ³	(6h/da 10 day		Rat		Female	toxicity Teratogenicit		Read-a	cross
			140	OALL (I I)	OL	CD 414	+ IIIg/I		(6h/da		Nat		emale	у		ineau-a	C1033
	sification of t usion CMR	he mixtur	e is b	ased on the	rele	evant ingre	dients o	of the n		1					1	•	
	classified for	reprotoxi	ic or c	developmen	ital t	oxicity											
	classified for																
Susp	pected of cau	sing cance	er.														
-	other effects																
	L HAND HELD																
	test)data on her informat		re av	allable													
SOUDA	L HAND HELD) FIXING F	OAM	<u>1 B3</u>							_						
	rc cat			3													
CLP ca	arc cat			category	/ 2												
Reason fo	or revision: Cl	LP	+									P	ublication	date: 2002-04-11	L		
22001110														ision: 2012-04-11			

Revision number: 0300 Product number: 32972 11/19

SC	DUDAL HAND	HELD FIXING F	OAM B3	
polymethylene polyphenyl isocyanat	<u>e</u>			
EC carc cat	3			
CLP carc cat	category 2			
IARC - classification	3			
MAK - Krebserzeugend Kategorie	4			
4,4'-methylenediphenyl diisocyanate				
EC carc cat	3			
CLP carc cat	category 2			
IARC - classification	3			
MAK - Krebserzeugend Kategorie	4			
<u>propane</u>				
TLV - Carcinogen	()			

SECTION 12: Ecological information

12.1 Toxicity:

SOUDAL HAND HELD FIXING FOAM B3

No (test)data on the mixture available

s(2-chloro-1-methylethyl) ph <mark>osph</mark> a	ate_							
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		56.2 mg/l	96 h	Brachydanio rerio	Static system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	OECD 202	65 - 335 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aq <mark>uatic</mark> plants	EC50	OECD 201	73 mg/l	96 h	Selenastrum capricornutum			Experimental value
olymethylene polyphenyl isocyan	<u>iate</u>							
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity other aquatic organisms	LC50		>1000 mg/l	96 h				Literature study
Toxicity aquatic micro- organisms	EC50	OECD 209	>100 mg/l		Activated sludge			Literature study
,4'-methylenediphenyl diisocyana	ate_						•	
	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
Acute toxicity invertebrates	EC50	OECD 202	129.7 mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across
Toxicity algae and other aquatic plants	EC50	OECD 201	> 1640 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	≥10 mg/l	21 day(s)	Daphnia magna	Semi-static	Fresh water	Read-across
Toxicity aquatic micro- organisms	EC50	OECD 209	>100 mg/l	3 h	Activated sludge	Static system	Fresh water	Read-across
limethyl ether		•				•		•
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		>1000 mg/l	96 h	Pisces			
Acute toxicity other aquatic organisms	LC50		>4400 mg/l	48 h	Daphnia magna			

Duration

96 h

Species

Pisces

Test design

Fresh/salt

water

Value determination

Conclusion

<u>propane</u>

No data available on ecotoxicity

Acute toxicity fishes

12.2 Persistence and degradability:

Reason for revision: CLP Publication date: 2002-04-11 Date of revision: 2012-04-11

Method

Parameter

LC50

Value

> 1000 mg/l

Revision number: 0300 Product number: 32972 12 / 19

SOUDAL HAND HELD FIXING FOAM B3 tris(2-chloro-1-methylethyl) phosphate **Biodegradation water** Method Value Duration Value determination OECD 301E: Modified OECD Screening Test 14 % 28 day(s) Experimental value OECD 301C: Modified MITI Test (I) Experimental value 0 % 28 day(s) polymethylene polyphenyl isocyanate **Biodegradation water** Method Value Duration Value determination OECD 302C: Inherent Biodegradability: < 60 % Experimental value Modified MITI Test (II) 4,4'-methylenediphenyl diisocyanate **Biodegradation water** Method Value Duration Value determination OECD 302C: Inherent Biodegradability: 28 day(s) Read-across Modified MITI Test (II) dimethyl ether **Biodegradation water** Method Value Duration Value determination 28 day(s) OECD 301A: DOC Die-Away Test 5 % Experimental value **Biodegradation water** Method Value Value determination Duration OECD 301E: Modified OECD Screening Test 70 % Experimental value isobutane Biodegradation water Method Value determination Value Duration 72.6 % 35 day(s) 50 % 16 - 26 day(s) Conclusion Contains non readily biodegradable component(s) 12.3 Bioaccumulative potential: tris(2-chloro-1-methylethyl) phosphate **BCF** fishes **Parameter** Method Value Duration Species Value determination BCF 0.8 - 4.6 Experimental value Cyprinus carpio Log Kow Method Value determination Value Temperature 2.59 Experimental value polymethylene polyphenyl isocyanate **BCF** fishes Value Duration Value determination Parameter Method Species BCF Pisces Literature study 4,4'-methylenediphenyl diisocyanate **BCF** fishes **Parameter** Method Value Duration Value determination Species BCF **OECD 305** 92 - 200 4 week(s) Cyprinus carpio Experimental value Log Kow Method Value Temperature Value determination 5.22 Estimated value dimethyl ether Log Kow Method Value Temperature Value determination 0.10Experimental value Reason for revision: CLP Publication date: 2002-04-11

Revision number: 0300 Product number: 32972 13 / 19

Date of revision: 2012-04-11

propane

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		9 - 25		Pisces	

Log Kow

Method	Value	Temperature	Value determination
	2.3		Experimental value

<u>isobutane</u>

BCF fishes

Ī	Parameter	Meth	od	Value	Duration	Species	Value determination
	BCF			20 - 52		Pisces	

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		20 - 52		Daphnia magna	

Log Kow

Method	Value	Temperature	Value determination
	2.76 - 2.88		Experimental value

Conclusion

No straightforward conclusion can be drawn based upon the available test results

12.4 Mobility in soil:

SOUDAL HAND HELD FIXING FOAM B3

4,4'-methylenediphenyl diisocyanate

Volatility (Henry's Law constant H)

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

Conclusion

No (test)data on mobility of the components of the mixture available

12.5 Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

SOUDAL HAND HELD FIXING FOAM B3

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. 1272/2008 and 1005/2009)

tris(2-chloro-1-methylethyl) phosphate

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

polymethylene polyphenyl isocyanate

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

4,4'-methylenediphenyl diisocyanate

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

Water ecotoxicity reaction products

Reaction products are harmful to aquatic organisms

dimethyl ether

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

propane

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

Reason for revision: CLP Publication date: 2002-04-11
Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 14 / 19

isobutane

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2001/118/EC).

08 04 09* (waste adh<mark>esives and sealants containing organic s</mark>olvents or other dangerous substances). Depending on branch of industry and production process, also other EURAL codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Specific treatment. 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 **UN** number 1950 14.2 UN proper shipping name: Officiële vervoersnaam Aerosols 14.3 Transport hazard class(es): Hazard identification number Class Classification code 5F 14.4 Packing group: Packing group Labels 2.1 14.5 Environmental hazards: Environmentally hazardous substance mark no 14.6 Special precautions for user: Special provisions 190 327 Special provisions 344 Special provisions Special provisions 625 Limited quantities Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) Rail (RID) 14.1 UN number: Transport 1950 UN number 14.2 UN proper shipping name: Officiële vervoersnaam Aerosols 14.3 Transport hazard class(es): Hazard identification number 23 Class Classification code 5F 14.4 Packing group: Packing group 2.1 Labels 14.5 Environmental hazards: Environmentally hazardous substance mark no Reason for revision: CLP Publication date: 2002-04-11 Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 15 / 19

14.6 Special precautions fo <mark>r user:</mark>	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
Limited quantities	liquids. A package shall not weigh more than 30 kg. (gross mass)
and waterways (ADN)	
14.1 UN number:	
Transport	
UN number	1950
14.2 UN proper shipping na <mark>me:</mark>	
Officiële vervoersnaam	Aerosols
14.3 Transport hazard class(es):	
Class	2
Classification code	5F
14.4 Packing group:	
Packing group	
Labels	2.1
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions fo <mark>r user:</mark>	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
a (IMDG) 14.1 UN number:	
Transport	
UN number	1950
14.2 UN proper shipping name:	
Officiële vervoersnaam	Aerosols
14.3 Transport hazard class(es):	
Class	2.1
14.4 Packing group:	
Packing group	
Labels	2.1
14.5 Environmental hazards:	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Special provisions	190
Special provisions	
Special provisions	327
Special provisions	344
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
[14.7 Transport in bulk according to Annex II of MARPOL 73/78 ar	liquids. A package shall not weigh more than 30 kg. (gross mass)
Annex II of MARPOL 73 <mark>/78</mark>	Not applicable, based on available data
(ICAO-TI/IATA-DGR) 14.1 UN number:	
Transport	
UN number	1950
14.2 UN proper shipping name:	
	Aerosols
	, 101 03013
Officiële vervoersnaam	
Officiële vervoersnaam	Publication date: 2002-04-11

Revision number: 0300 Product number: 32972 16 / 19

	Class		2.1
14.	4 Packing group:		
	Packing group		
	Labels		2.1
14.	5 Environmental hazards:		
	Environmentally hazardous substance mark		no
14.	6 Special precautions for user:		
	Special provisions		A145
	Special provisions		A167
	Special provisions		A802
	Passenger and cargo transport: limited quantities: maximum per packaging	net quantity	30 kg G

SECTION 15: Regulatory information

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

European legislation:

Volatile organic compounds (VOC)

18 %

REACH Annex XVII - Restriction

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

and use of certain dangerous substances, mixtures and articles.		
	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· tris(2-chloro-1-methylethyl) phospi · polymethylene polyphenyl isocyana	regarded as dangerous according to the	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 dipokes, — 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. 3. Shall not be placed on the market of 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, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the
· dimethyl ether · propane · isobutane	in Directive 67/548/ EEC and classified as flammable, highly flammable or extremely flammable regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	y 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificia snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 sha not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (**).4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated (**) OJ L 147, 9.6.1975, p. 40.
- polymethylene polyphenyl isocyana - 4,4'-methylenediphenyl diisocyana		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: (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC (*********); (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labellin of substances and mixtures: "— 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
ason for revision: CLP		Publication date: 2002-04-11 Date of revision: 2012-04-11

Revision number: 0300 Product number: 32972 17 / 19

		<u> </u>		
			is filter (i.e. type A1 according to standard EN 14387) is used."2.	
		(*******) OJ L 399, 30.12	raph 1(a) shall not apply to hot melt adhesives.	
National legislation		() 03 2 3 3 3 , 3 6 . 1 2 .	1303, β. 10.	
- The Netherlands				
Waterbezwaarlijk	heid (for NL)	8		
Waste identificati	on other lists of waste materials	LWCA (the Netherlands): KGA category 06		
- Germany				
WGK		1	Classification water polluting based on the components	
			in compliance with Verwaltungsvorschrift	
			wassergefährdender Stoffe (VwVwS) of 27 July 2005	
			(Anhang 4)	
TA-Luft		4,4'-methylenediphenyl diisocyanate	TA-Luft Klasse 5.2.5/I	
TA-Luft		dimethyl ether	TA-Luft Klasse 5.2.5	
TA-Luft		propane	TA-Luft Klasse 5.2.5	
TA-Luft		isobutane	TA-Luft Klasse 5.2.5	

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

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

R20 Harmful by inhalation

R40 Limited evidence of a carcinogenic effect

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

R42/43 May cause sensitisation by inhalation and skin contact

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

R22 Harmful if swallowed

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

H302 Harmful if swallowed.

H222 Extremely flammable aerosol.

H351 Suspected of causing cancer.

H220 Extremely flammable gas.

H332 Harmful if inhaled.

H280 Contains gas under pressure; may explode if heated.

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

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

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

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

H317 May cause an allergic skin reaction.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

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

Specific concentration limits CLP

4,4'-methylenedipheny <mark>l diisocyanate</mark>	C => 5%	STOT SE 3; H335
	C => 0.1%	Resp. Sens. 1; H334
	C => 5%	Skin Irrit. 2; H315
	C => 5%	Eye Irrit. 2; H319

Specific concentration limits DSD

4,4'-methylenedipheny <mark>l diisocyanate</mark>	C >= 25 %	Xn; R 20-36/37/38-40-42/43-48/20
	10 % <= C < 25 %	Xn; R 36/37/38-40-42/43-48/20
	5 % <= C < 10 %	Xn; R 36/37/38-40-42/43
	1 % <= C < 5 %	Xn; R 40-42/43
	0,1 % <= C < 1 %	Xn; R 42

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Revision number: 0300 Product number: 32972 18 / 19

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