

SAFETY DATA SHEET

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

Soudal Hand Held Expanding Foam UK

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

1.1. Product identifier

Product name : Soudal Hand Held Expanding Foam UK

Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

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

3 +32 14 42 42 31

4 +32 14 42 65 14

msds@soudal.com

Manufacturer of the product

SOUDAL N.V.

Everdongenlaan 18-20

B-2300 Turnhout

3 +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)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Class	Category	Hazard statements
Aerosol	category 1	H222: Extremely flammable aerosol.
Aerosol	category 1	H229: Pressurised container: May burst if heated.
Carc.	category 2	H351: Suspected of causing cancer.
Lact.	-	H362: May cause harm to breast-fed children.
Resp. Sens.	category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H335: May cause respiratory irritation.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	categ <mark>ory 1</mark>	H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements









Contains: alkanes, C14-17, chloro; polymethylene polyphenyl isocyanate.

Signal word

Danger

H-statements H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H351

Suspected of causing cancer.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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

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H362	May cause harm to breast-fed children.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic 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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Supplemental informati	on

- 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

Gas/vapour spreads at floor level: ignition hazard

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No		CAS No EC No		Conc. (C)	Classification according to CLP	Note	Remark
propane 01-2119486944-21		74-98-6 200-827-9			Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
dimethyl ether 01-2119472128-37		115-10-6 204-065-8			Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
isobutane 01-2119485395-27		75-28-5 200-857-2			Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)(21)	Propellant
alkanes, C14-17, chloro 01-2119519269-33		85535-85-9 287-477-0	(Lact. ; H362 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(8)(10)	Constituent
polymethylene polyphenyl isocy	yanate	9016-87-9			Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)(18)(V)	Constituent

- (1) For H-statements in full: see heading 16
- (2) Substance with a Community workplace exposure limit
- (8) Specific concentration limits, see heading 16
- (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006
- (18) Polymethylene polyphenyl isocyanate, contains > 0.1% MDI-isomers
- (21) 1,3-butadiene < 0.1%
- (V) Exempted from registration under REACH (Regulation (EC) No 1907/2006, article 2 (9), polymers)

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SECTION 4: First aid measures

4.1. Description of first aid measures

General:

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

After inhalation

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

After skin contact:

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

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. 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. Do not induce vomiting. Consult a doctor/medical service if you feel

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:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), Foam.

Major fire: Water (water can be used to control jet flame), Foam.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). Pressurised container: May burst if heated. 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. Take account of toxic/corrosive precipitation water. 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. 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 explosionproof 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 solid spill. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

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Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

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

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. 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. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Unauthorized persons are not admitted. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

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

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.

EU			
Dimethylether		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m³
Belgium			
4,4'-Diisocyanate de di	phénylméthane (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm
		Time-weighted average exposure limit 8 h	0.052 mg/m ³
Hydrocarbures aliphatiq C3)	ues sous forme gazeuse: (Alcanes C1-	Time-weighted average exposure limit 8 h	1000 ppm
		Short time value	980 ppm
		Short time value	2370 mg/m³
Oxyde de diméthyle		Time-weighted average exposure limit 8 h	1000 ppm
		Time-weighted average exposure limit 8 h	1920 mg/m ³
he Netherlands			
Dimethylether		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	496 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m³
		Short time value (Public occupational exposure limit value)	783 ppm
		Short time value (Public occupational exposure limit value)	1500 mg/m³
rance			
4,4'-Diisocyanate de dip	hénylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.01 ppm
		Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³
		Short time value (VL: Valeur non réglementaire indicative)	0.02 ppm
		Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m ³
Oxyde de diméthyle		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm
		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m³

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Cormony			
Germany 4,4'-Methylendiphenyldii	isocyanat	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³
	orierte Paraffine C14-17)	Time-weighted average exposure limit 8 h (TRGS 900)	0.3 ppm
Cilioralkarie, C14-17 (Cili	onerte Paranine C14-17)		
		Time-weighted average exposure limit 8 h (TRGS 900)	6 mg/m³
Dimethylether		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1900 mg/m³
sobutan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m ³
MDI (als MDI berechnet	i)	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³
Propan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m³
JK			
Dimethyl ether		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	766 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	500 ppm
		Short time value (Workplace exposure limit (EH40/2005))	958 mg/m³
socyanates, all (as -NCO)	Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m ³
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m ³
JSA (TLV-ACGIH)			
Butane, all isomers		Short time value (TLV - Adopted Value)	1000 ppm

Methylene bisphenyl isocyanate (MDI) 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	5521
Isocyanates		5522

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

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

8.1.4 Threshold values

DNEL/DMEL - Workers

alkanes, C14-17, chloro

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	6.7 mg/m ³	
	Long-term systemic effects dermal	47.9 mg/kg bw/day	

Time-weighted average exposure limit 8 h (TLV - Adopted Value)

0.005 ppm

DNEL/DMEL - General population

alkanes, C14-17, chloro

Effect level (DNEL/DMI	EL)	Гуре	Value	Remark
DNEL	L	ong-term systemic effects inhalation	2 mg/m³	
		ong-term systemic effects dermal	28.75 mg/kg bw/day	
		ong-term systemic effects oral	0.58 mg/kg bw/day	

PNEC

alkanes, C14-17, chloro

Compartments	Value	Remark
Fresh water	<mark>1 µg/l</mark>	
Marine water	<mark>0.2 μg/l</mark>	
STP	<mark>80 mg/l</mark>	
Fresh water sediment	13 mg/kg sediment dw	
Marine water sediment	2.6 mg/kg sediment dw	
Soil	11.9 mg/kg soil dw	
Oral	<mark>10 mg/kg</mark> food	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer. 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-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the

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:

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

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b) Hand protection:

Gloves.

c) Eve 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
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		Not applicable (mixture)
Dynamic viscosity		No data available
Kinematic viscosity		No data available
Melting point		No data available
Boiling point		No data available
Evaporation rate		No data available
Relative vapour density		No data available
Vapour pressure		No data availa <mark>b</mark> le
Solubility		Water ; insoluble
		Organic solvents ; soluble
Relative density		0.9693
Decomposition tempera	ture	No data available
Auto-ignition temperatu	re	No data available
Flash point		No data available
Explosive properties		No chemical group associated with explosive properties
Oxidising properties		No chemical group associated with oxidising properties
рН		<mark>No data availa</mark> ble

9.2. Other information

Absolute density 969.3 kg/m³

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

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

(strong) acids, (strong) bases, amines.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50		> 4000 mg/kg bw			Experimental value	
Dermal	LD50		> 13500 mg/kg bw	24 h	Rabbit	Read-across	
			2 15300 Hig/kg bw	24 11	Nabbit	neau-acioss	
Inhalation (vapour	s) LC50		> 48.170 mg/l air	1 h	Rat	Read-across	
methylene polyph	enyl isocyanate						
Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50		> 10000 mg/kg			Literature study	
Dermal	LD50		> 5000 mg/kg			Literature study	
nhalation (vapour	s) LC50		11 mg/l	4 h		Literature	
usion classified for acute n/irritation	toxicity						
Hand Held Expand test)data on the m sification is based on nes, C14-17, chloro	ixture a <mark>vaila</mark> ble on the r <mark>elevant</mark>						
oute of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
ye	Slightly <mark>irritatin</mark> չ	g		/	Rabbit	Expert judgement	
	Slightly <mark>irritatin</mark> į		4 h	24; 72 hours	Rabbit	Expert judgement	
methylene polyph oute of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
ye	Irritatin <mark>g;</mark>					Literature study	
kin	category 2 Irritating;					Literature study	
nhalation	category 2 Irritating; STOT SE cat.3					Literature study	
usion ses skin irritation. ses serious eye irri y cause respiratory ory or skin sensitisa	tation. irritation.						
Hand Held Expand (test)data on the m sification is based on nes, C14-17, chloro	ing Foam UK iixture available on the relevant				4		
oute of exposure		Method	Exposure time	Observation time point		Value determination	Remark
	Not sensitizing	Guinea pig maximisation test		48 hours	Guinea pig	Experimental value	
in l			Evanouro timo	Observation time	Species	Value determination	Remark
methylene polyph		Method	Exposure time	point			I Komark
methylene polyph pute of exposure in	Result Gensitizi <mark>ng;</mark>		Exposure time	point		Literature study	Remark
methylene polyph oute of exposure in	Result		exposure time	point		Literature study	The mark

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alkanes, C14-17,	chloro
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Route of exposure	Paramete	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	Equivalent to OECD 408	300 ppm		No effect	13 weeks (daily)	Rat (male / female)	Experimental value
Oral (diet)	NOAEL	Equivalent to OECD 408	23 mg/kg bw/day - 24.6 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male / female)	Experimental value
Dermal								Data waiving
Inhalation								Data waiving

polymethylene polyphenyl isocyanate

Route of exposure	Parame	eter I	Method	Value	Organ	Effect	Exposure time	Value determination
Inhalation				STOT RE cat.2				Literature study

Conclusion

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

Not classified as sub-chronically toxic in contact with skin

Not classified as sub-chronically toxic if swallowed

Mutagenicity (in vitro)

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

Judgement is based on the relevant ingredients

alkanes, C14-17, chloro

Result	Method	Test substrate	Effect	Value determination R	Remark
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative					
without metabolic					
activation					

Mutagenicity (in vivo)

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

Judgement is based on the relevant ingredients

alkanes, C14-17, chloro

Result		Method	Exposure time	Test substrate	Organ	Value determination
Negative		Equivalent to OECD 475	5 day(s)	Rat (male)	Bone marrow	Experimental value
Negative		Equivalent to OECD 474		Mouse (male / female)	Bone marrow	Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

Classification is based on the relevant ingredients

alkanes, C14-17, chloro

Route o exposur		Method	Value	Exposure time	Species	Effect	3	Value determination
Oral	LOAEL		. 0, 0		Rat (male / female)	Carcinogenicity	Liver; kidney	Read-across
Oral	LOAEL		O, O		Rat (male / female)	Carcinogenicity	Thyroid	Read-across

polymethylene polyphenyl isocyanate

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Unknown			category 2					Literature study

Conclusion

Suspected of causing cancer.

Reproductive toxicity

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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alkanes, C14-17, chloro

	Parameter	Method	Value	Exposure time	Species	Effect	. 3	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	5000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	500 mg/kg bw/day	13 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility	NOAEL (P)	OECD 421	100 mg/kg bw/day	9 week(s)	Rat (male)		Male reproductive organ	Experimental value
	NOAEL (P)	OECD 421	100 mg/kg bw/day	11 week(s) - 12 week(s)	Rat (female)		Female reproductive organ	Experimental value
Effects on lactation	LOAEL		3125 mg/kg bw		Rat (male / female)	Increased mortality in the pups		Experimental value

Conclusion

May cause harm to breast-fed children.

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

alkanes, C14-17, chloro

Parameter	Method	Value	Organ	Effect	Exposure time	Value determination
	Other			Skin dryness or cracking		 Experimental value Skin

Chronic effects from short and long-term exposure

Soudal Hand Held Expanding Foam UK

Feeling of weakness. Itching. Skin rash/inflammation. May stain the skin. Dry skin. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

SECTION 12: Ecological information

12.1. Toxicity

Soudal Hand Held Expanding Foam UK

No (test)data on the mixture available

Classification is based on the relevant ingredients

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So	udal	Hand	Helc	l E	xpan	ding Fo	an	า U	K	
alkanes, C14-17, chloro										
unaries, C1+17, cinoro	Parameter	Method	Value		Duration	Species	Test d	esign	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	> 5000 mį	g/l		Alburnus alburnus	Static	system	Brackish water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	0.006 mg,	/I	48 h	Daphnia magna	Static	system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	NOEC	OECD 201	0.1 mg/l		96 h	Pseudokirchnerie Ila subcapitata	Static	system	Fresh water	Experimental value; GLP
	ErC50	OECD 201	> 3.2 mg/	I	72 h	Pseudokirchnerie Ila subcapitata	Static	system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEC	Equivalent to OECD 204	> 12 5 μg/	I	, , ,	Alburnus alburnus	Semi-s		Brackish water	Experimental value
Long-term toxicity aquatic crustacea	NOEC	OECD 202	0.01 mg/l		21 day(s)	Daphnia magna	Static	system	Fresh water	Experimental value
	Parameter	Method		Val	ue	Duration		Specie	S	Value determination
Toxicity soil macro-organisms	NOEC	OECD 222			mg/kg soil dw				e fetida	Experimental value
Toxicity soil micro-organisms	NOEC	OECD 216		_	00 mg/kg soil d					Experimental value
	EC50	OECD 216		> 40	00 mg/kg soil d	lw 28 day(s)		Soil mi	cro-organisms	Experimental value
Toxicity terrestrial plants	NOEC	OECD 208		≥ 50	000 mg/l	28 day(s)		Brassic	ca napus	Experimental value
Toxicity birds	LC50	Equivalent 205	to OECD	> 24	4603 mg/kg foo	od 5 day(s)		Phasia	nus colchicus	Experimental value
	NOEC	Equivalent 205	to OECD	246	03 mg/kg food	f 5 day(s)		Phasia	nus colchicus	Experimental value
polymethylene polyphenyl isocyar	nate_									
	Parameter	Method	Value		Duration	Species	Test d	esign	Fresh/salt water	Value determination
Acute toxicity other aquatic organisms	LC50		> 1000 mg	g/l	96 h					Literature study
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/	/I		Activated sludge				Literature study
Conclusion Very toxic to aquatic life. Very toxic to aquatic life with long	lasting effect	s.						1		
12.2. Persistence and degra	dability									
Biodegradation water Method		Value			Duratio	on		Va	lue determina	tion

C

1

	ivietnoa	value	Duration	value determination	
	OECD 301D: Closed Bottle Test	37 %; GLP	28 day(s)	Experimental value	
В	Siodegradation soil				

Method Value Duration Value determination 51 % - 57 % 36 h Experimental value

polymethylene polyphenyl isocyanate Biodegradation water

Method	Value		Duration	Value determination
OECD 302C: Inherent Biodegradability:	< 60 %	-		Experimental value
Modified MITI Test (II)				

Conclusion

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

Soudal Hand Held Expanding Foam UK

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Publication date: 2018-05-15 Reason for revision: 3.2 Date of revision: 2019-09-17

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alkanes, C14-17, chloro

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	6660	35 day(s)	Oncorhynchus mykiss	Experimental value

Log Kow

Method	Remark	Value	Temperature	Value determination
		<mark>5.47</mark> - 8.01		Experimental value
		> 5		

polymethylene polyphenyl isocyanate

BCF fishes

Parameter	Metho	od	Value	Dur	ation	Species	Value determination
BCF			1			Pisces	Literature study

Log Kow

 J				
Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

alkanes, C14-17, chloro

(log) Koc

Parameter		Method	Value	Value determination
log Koc			5	Experimental value

Conclusion

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

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

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Soudal Hand Held Expanding Foam UK

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

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

Ozone-depleting potential (ODP)

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

polymethylene polyphenyl isocyanate

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

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

SECTION 13: Disposal considerations

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

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

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

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 05 01* (wastes not otherwise specified in 08: waste isocyanates).

16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances).

Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. 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

14.2. UN proper shipping name

European Union

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. ON number		
	UN number		1950

Proper shipping name Aerosols

Reason for revision: 3.2 Publication date: 2018-05-15

Revision number: 0003 Product number: 60828 11/16

Date of revision: 2019-09-17

Read Section	.3. Transport hazard clas	ss(es)
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Date of revision: 2019-09-17	nd waterways (ADN 1.1. UN number UN number 2.2. UN proper shipping r Proper shipping name 1.3. Transport hazard class Classification code 1.4. Packing group Packing group Labels 1.5. Environmental hazar Environmentally hazar 1.6. Special precautions f Special provisions Special provisions Special provisions Special provisions Limited quantities (IMDG/IMSBC) 1.1. UN number UN number 1.2. UN proper shipping r Proper shipping name 1.3. Transport hazard clast Class 1.4. Packing group Packing group Labels 1.5. Environmental hazar	liquids. A package shall not weigh more than 30 kg. (gross mass) 1950
	nd waterways (ADN 1.1. UN number UN number 2.2. UN proper shipping r Proper shipping name 1.3. Transport hazard class Classification code 1.4. Packing group Packing group Labels 1.5. Environmental hazar Environmentally hazar 1.6. Special precautions f Special provisions Special provisions Special provisions Special provisions Limited quantities (IMDG/IMSBC) 1.1. UN number UN number 1.2. UN proper shipping r Proper shipping name 1.3. Transport hazard clast Class 1.4. Packing group Packing group Labels 1.5. Environmental hazar	liquids. A package shall not weigh more than 30 kg. (gross mass) 1950

Marine pollutant	p
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	63
Special provisions	959
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)
14.7. Transport in bulk according to Annex II of Marpol an	d the IBC Code
Annex II of MARPOL 73/78	Not applicable
Air (ICAO-TI/IATA-DGR)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	la 4
Class	2.1
14.4. Packing group	
Packing group Labels	2.1
14.5. Environmental hazards	2.1
Environmentally hazardous substance mark	ves
14.6. Special precautions for user	lyes
Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport	y 1002
Limited quantities: maximum net quantity per packag	ing 30 kg G
	o

SECTION 15: Regulatory information

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

VOC content Directive 2010/75/EU

VOC content	Remark
18.159899 % - 25.4850 <mark>2 %</mark>	
176.023901 g/l - 247.02 <mark>62989 g/l</mark>	

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	
	Conditions of restriction
substances or of the mixture	
Liquid substances or mixtures fulfilling the	1. Shall not be used in:
criteria for any of the following hazard classes	— ornamental articles intended to produce light or colour effects by means of different
S S	phases, for example in ornamental lamps and ashtrays,
(EC) No 1272/2008:	— tricks and jokes,
	— games for one or more participants, or any article intended to be used as such, even
and 2, 2.14 categories 1 and 2, 2.15 types A to	
F;	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 H304,
	4. Decorative oil lamps for supply to the general public shall not be placed on the market
r ,	unless they conform to the European Standard on Decorative oil lamps (EN 14059) adop
(d) hazard class 5.1.	by the European Committee for Standardisation (CEN).
	5. Without prejudice to the implementation of other Community provisions relating to
	classification, packaging and labelling of dangerous substances and mixtures, suppliers
	ensure, before the placing on the market, that the following requirements are met:
	a) lamp oils, labelled with H304, intended for supply to the general public are visibly, leg
	and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of
	children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of
	lamps — may lead to life- threatening lung damage";
	b) grill lighter fluids, labelled with H304, intended for supply to the general public are le
	and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead
	life threatening lung damage";
	c) lamp oils and grill lighters, labelled with H304, intended for supply to the general pub
	are packaged in black opaque containers not exceeding 1 litre by 1 December
	Publication date: 2018-05-15
	criteria for any of the following hazard classes or categories set out in Annex I to Regulation

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· polymethylene polyphenyl isocyanat	Methylenediphenyl diisocyanate (MDI))	2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in
	including the following specific isomers: Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'- Methylenediphenyl diisocyanate		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 labelling 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 mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. 2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.
National legislation Belgium			

Soudal Hand Held Expanding Foam UK

No data available

National legislation The Netherlands

Soudal Hand Held Expanding Foam UK

_		
	Waterbezwaarlijkheid	Z (2); Algemene Beoordelingsmethodiek (ABM)
a	lkanes, C14-17, chloro	
	SZW - Lijst van voor de	Alkanen, C14-C17, chloor; May cause harm to breastfed babies
	voortplanting giftige st <mark>offe</mark>	
	(borstvoeding)	

National legislation France

Soudal Hand Held Expanding Foam UK

No data available

polymethylene polyphenyl isocyanate

4,4'-Diisocyanate de diphénylméthane; C2 Catégorie cancérogène

National legislation Germany

Soudal Hand Held Expanding Foam UK

WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017					
alkanes, C14-17, chloro						
TA-Luft	5.2.5/I					
TRGS900 - Risiko der	Chloralkane, C14-17 (Chlorierte Paraffine C14-17); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des					
Fruchtschädigung	Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden					
Hautresorptive Stoffe	Chloralkane, C14-17 (Chlorierte Paraffine C14-17); H; Hautresorptiv					

polymethylene polyphenyl isocyanate

TA-Luft	5.2.5/I			
TRGS900 - Risiko der	4,4'-Methylendiphenyldiisocyanat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes			
Fruchtschädigung	und des biologischen Grenzwertes nicht befürchtet zu werden			
	pMDI (als MDI berechnet); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des			
	biologischen Grenzwertes nicht befürchtet zu werden			
Sensibilisierende Stoffe	4,4'-Methylendiphenyldiisocyanat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden			
	Zielorganen Allergien auslösende			
	pMDI (als MDI berechnet); Sa; Atemwegssensibilisierende Stoffe			
TRGS905 - Krebserzeugend	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); 2			
TRGS905 - Erbgutverändernd	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -			
TRGS905 -	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -			
Fruchtbarkeitsgefährdend				
TRGS905 - Fruchtschädigend	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -			
Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocyanat; H; Hautresorptiv			
	pMDI (als MDI berechnet); H; Hautresorptiv			

National legislation United Kingdom

Soudal Hand Held Expanding Foam UK

No data available

polymethylene polyphenyl isocyanate

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

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Other relevant data

Soudal Hand Held Expanding Foam UK

No data available

alkanes, C14-17, chloro

IARC - classification 2B; Chlorinated paraffins

polymethylene polyphenyl isocyanate

IARC - classification 3; Polymethylene polyphenyl isocyanate

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

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

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

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.

(*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

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

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

M-factor

alkanes, C14-17, chloro	100	Acut	e	BIG	
alkanes, C14-17, chloro	10	Chro	nic (NRD)	BIG	

Specific concentration limits CLP

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t				1
alkanes, C14-17, chloro		1,0 % ≤ C ≤ 20 %	Lact. H362	FEICA Position Paper
				on the classification
				and labelling of One
				Component Foam
				(OCF) containing Mid
				Chained Chlorinated
				Paraffin (MCCP) March
				7th 2014)
		1,0 % ≤ C ≤ 20 %	EUH066	FEICA Position Paper
				on the classification
				and labelling of One
				Component Foam
				(OCF) containing Mid
				Chained Chlorinated
				Paraffin (MCCP) March
				7th 2014)
		0,25 % ≤ C ≤ 20 %	Aquatic Chronic 4; H413	FEICA Position Paper
				on the classification
				and labelling of One
				Component Foam
				(OCF) containing Mid
				Chained Chlorinated
				Paraffin (MCCP) March
				7th 2014)
polymethylene polyphen	yl isocyanate	C≥0.1%	Resp. Sens. 1; H334	analogous to Annex VI
		C≥5%	Skin Irrit. 2; H315	analogous to Annex VI
		C≥5%	Eye Irrit. 2; H319	analogous to Annex VI
		C≥5%	STOT SE 3; H335	analogous to Annex VI

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

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