

SAFETY DATA SHEET

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

Soudal SA Fill & Fix Foam

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

1.1. Product identifier

Product name : Soudal SA Fill & Fix Foam
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 ☎ +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

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

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Class	Category	Hazard statements	
Aerosol	category 1	H222: Extremely flammable aerosol.	
Aerosol	categ <mark>ory 1</mark>	H229: Pressurised container: May burst if heated.	
Carc.	categ <mark>ory 2</mark>	H351: Suspected of causing cancer.	
Lact.	-	H362: May cause harm to breast-fed children.	
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.	categ <mark>ory 2</mark>	H319: Causes serious eye irritation.	
STOT SE	categ <mark>ory 3</mark>	35: May cause respiratory irritation.	
Skin Irrit.	category 2	H315: Causes skin irritation.	
Resp. Sens.	categ <mark>ory 1</mark>	34: 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.	
Aquatic Chronic	categ <mark>ory 4</mark>	H413: May cause long lasting harmful effects to aquatic life.	

2.2. Label elements







Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be

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Revision number: 0000 Product number: 58439

Publication date: 2017-06-02

134-15960-558-en

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Contains: polymethylene	polyphenyl isocyanate; alkanes, C14-17, chloro.
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Signal word	Danger
H-statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
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.
H413	May cause long lasting harmful effects to aquatic life.
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.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501
Supplemental information

P410 + P412

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

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

- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
- This product should not be used unless a power assisted filtering device incorporating full face mask (according to standard EN 12942) 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
polymethylene polyphenyl isocy a	nate	9016-87-9		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
isobutane 01-2119485395-27		75-28-5 200-857-2		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%)						
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

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- (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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

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 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

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, hydrogen chloride, carbon monoxide - carbon dioxide). Pressurised container: May burst if heated. 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. Take account of toxic/corrosive precipitation water.

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

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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

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. Keep away from naked flames/heat. Keep away from ignition sources/sparks. 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. Store in a dry area. 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.

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			
Hydrocarbures aliphatiqu C4)	ues sous forme gazeuse : (Alcanes C1-	Time-weighted average exposure limit 8 h	1000 ppm
Oxyde de diméthyle		Time-weighted average exposure limit 8 h	1000 ppm
		Time-weighted average exposure limit 8 h	1920 mg/m³
The 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
France			
Oxyde de diméthyle		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm

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	P		
Oxyde de diméthyle		Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m³
Germany			
Chloralkane, C14-17 (Ch	orierte Paraffine C14-17)	Time-weighted average exposure limit 8 h (TRGS 900)	0.3 ppm
		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
Isobutan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m³
pMDI (als MDI berechnet	t)	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m ³
Propan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m³
UK			
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
Isocyanates, 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
USA (TLV-ACGIH)			
Butane, all isomers		Short time value (TLV - Adopted Value)	1000 ppm
			•

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		NIOSH	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 DNEL/PNEC values

DNEL/DMEL - Workers

alkanes, C14-17, chloro

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	6.7 mg/m³	
		Long-term systemic effects dermal	47.9 mg/kg bw/day	

DNEL/DMEL - General population

alkanes, C14-17, chloro

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		L <mark>ong-term systemic effec</mark> ts inhalation	2 mg/m ³	
		L <mark>ong-term systemic effec</mark> ts dermal	28.75 mg/kg bw/day	
		<mark>Long-term systemic effec</mark> ts oral	0.58 mg/kg bw/day	

PNEC

alkanes, C14-17, chloro

Value	Remark
1 μg/l	
0.2 μg/l	
80 mg/l	
13 mg/kg sediment dw	
2.6 mg/kg sediment dw	
11.9 mg/kg soil dw	
10 mg/kg food	
	1 µg/l 0.2 µg/l 80 mg/l 13 mg/kg sediment dw 2.6 mg/kg sediment dw 11.9 mg/kg soil dw

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

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Use spark-/explosionproof appliances and lighting system. Keep 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		
Odour		Characteristic odour		
Odour threshold		No data available		
Colour		Variable in colour, depending on the composition		
Particle size		Not applicable		
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		
Flash point		Not applicable		
Evaporation rate		No data available		
Relative vapour density		>1		
Vapour pressure		No data available		
Solubility		Organic solvents ; soluble		
		Water ; insoluble		
Relative density		0.95 ; 20 °C		
Decomposition temperature		No data available		
Auto-ignition temperatur <mark>e</mark>		No data available		
Explosive properties		No chemical group associated with explosive properties		
Oxidising properties		No chemical group associated with oxidising properties		
рН		No data available		

9.2. Other information

Absolute density	946.8 kg/m³ ; 2	2 0 ℃	

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.

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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, hydrogen chloride, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		> 10000 mg/kg		Rat	Literature study	
Dermal	LD50		<mark>> 5000 m</mark> g/kg		Rabbit	Literature study	
Inhalation (vapours)	LD50		<mark>10 mg/l -</mark> 20 mg/l	4 h	Rat	Literature study	
Inhalation			<mark>category</mark> 4			Literature study	

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		> 4000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50		> 13500 mg/kg bw	24 h	Rabbit	Read-across	
Inhalation (vapours)	LC50		<mark>> 48.170</mark> mg/l air	1 h	Rat	Read-across	

Classification of the mixture is based on the bridging principle

Conclusion

Harmful if inhaled.

Not classified as acute toxic if swallowed

Not classified as acute toxic in contact with skin

Corrosion/irritation

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	Exposure time	Time point	Value determination	Remark
1 '	Irritating; category 2				Literature study	
	Irritatin <mark>g;</mark> category <mark>2</mark>				Literature study	
	Irritating; STOT SE cat.3				Literature study	

The liquid form can cause frostbites, typical for all liquefied gases

The liquid form can cause frostbites, typical for all liquefied gases

alkanes, C14-17, chloro

Rou	ute of exposure	Result	Method	Exposure time	Time point	-	Value determination	Remark
Eye	2	Slightly <mark>irritating</mark>				Rabbit	Expert judgement	
Skir	n	Slightly irritating	OECD 404	4 h	24; 72 hours	Rabbit	Expert judgement	

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Respiratory or skin sensitisation

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

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polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
	Sensitizin <mark>g;</mark> category 1					Literature study	
Inhalation	Sensitizing; category 1					Literature study	

The study on skin sensitisation does not need to be conducted as the substance is a gas

The study on skin sensitisation does not need to be conducted as the substance is a gas

alkanes, C14-17, chloro

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Guinea pig	48 hours	Guinea pig	Experimental value	
		maximisation test				

Classification is based on the relevant ingredients

Conclusion

May cause an allergic skin reaction.

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

Specific target organ toxicity

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

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

alkanes, C14-17, chloro

Route of exposure	Paramet	ter Method	V t	/alue	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	Equival OECD 4		00 ppm		No effect	13 weeks (daily)	Rat (male/female)	Experimental value
Oral (diet)	NOAEL	Equival OECD 4	08 b	3 mg/kg w/day - 24.6 ng/kg bw/day		No effect	13 weeks (daily)	Rat (male/female)	Experimental value
Dermal									Data waiving
Inhalation									Data waiving

Classification is based on the relevant ingredients

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 SA Fill & Fix Foam

No (test)data on the mixture available

alkanes, C14-17, chloro

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

Mutagenicity (in vivo)

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

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

Classification is based on the relevant ingredients

Conclusion

Not classified for mutagenic or genotoxic toxicity

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Carcinogenicity

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	- 3	Value determination
Unknown			category 2					Literature study

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	9	Value determination
Oral	LOAEL		. 0, 0	(-	Rat (male/female)	Carcinogenicity	Liver; kidney	Read-across
Oral	LOAEL		<i>O, O</i>		Rat (male/female)	Carcinogenicity	Thyroid	Read-across

Classification is based on the relevant ingredients

Conclusion

Suspected of causing cancer.

Reproductive toxicity

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

alkanes, C14-17, chloro

aries, C14-17, Criloro			1		1.	1	-	1
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	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)	No effect	Male reproductive organ	Experimental value
	NOAEL (P)	OECD 421	100 mg/kg bw/day	11 week(s) - 12 week(s)	Rat (female)	No effect	Female reproductive organ	Experimental value
Effects on lactation			May cause harm to breast- fed children.					Experimental value

Classification is based on the relevant ingredients

Conclusion

May cause harm to breast-fed children.

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Soudal SA Fill & Fix Foam

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		Rat	Experimental value

Chronic effects from short and long-term exposure

Soudal SA Fill & Fix Foam

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Feeling of weakness. Itching. Skin rash/inflammation. May stain the skin. Dry skin. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

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SECTION 12: Ecological information

12.1. Toxicity

Soudal SA Fill & Fix Foam

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

	Parameter	Method	Value	Duration	Species	 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

alkanes, C14-17, chloro

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	> 5000 mg/l	96 h	Alburnus alburnus	Static system	Brackish water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	0.006 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquati plants	NOEC	OECD 201	0.1 mg/l	96 h	Pseudokirchnerie la subcapitata	Static system	Fresh water	Experimental value; GLP
	ErC50	OECD 201	> 3.2 mg/l	72 h	Pseudokirchneriel la subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEC	Equivalent to OECD 204	> 125 μg/l	14 day(s)		Semi-static system	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	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	NOEC	OECD 222	900 mg/kg soil dw	56 day(s)	Eisenia fetida	Experimental value
Toxicity soil micro-organisms	NOEC	OECD 216	≥ 400 mg/kg soil dw	28 day(s)	Soil micro-organisms	Experimental value
	EC50	OECD 216	> 400 mg/kg soil dw	28 day(s)	Soil micro-organisms	Experimental value
Toxicity terrestrial plants	NOEC	OECD 208	≥ 5000 mg/l	28 day(s)	Brassica napus	Experimental value
Toxicity birds	LC50	Equivalent to OECD 205	> 24603 mg/kg food	5 day(s)	Phasianus colchicus	Experimental value
	NOEC	Equivalent to OECD 205	24603 mg/kg food	5 day(s)	Phasianus colchicus	Experimental value

Classification is based on the relevant ingredients

Conclusion

May cause long lasting harmful effects to aquatic life.

12.2. Persistence and degradability

polymethylene polyphenyl isocyanate

Biodegradation water

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

alkanes, C14-17, chloro

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	37 %; GLP	28 day(s)	Experimental value

Biodegradation soil

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

Conclusion

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Method Remark Value Temperature Value determ	
Tomporatar Value action	rmination

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Not applicable (mixture)			

polymethylene polyphenyl isocyanate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		1		Pisces	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

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		

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) that adsorb(s) into the soil

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

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Soudal SA Fill & Fix Foam

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)

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.

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. 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. Specific treatment. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

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

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Road (ADR) 14.1. UN number		
		kara
UN number		1950
14.2. UN proper shipping na	me	
Proper shipping name		Aerosols
14.3. Transport hazard class(
Hazard identification nur	mber	
Class		2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazards		
Environmentally hazardo	ous substance mark	no
14.6. Special precautions for		
Special provisions	usei	190
		327
Special provisions		
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)
Rail (RID) 14.1. UN number		
UN number		1950
14.2. UN proper shipping na	me	
Proper shipping name		Aerosols
14.3. Transport hazard class((oc)	, (1,000)
Hazard identification nur		23
Class	libei	2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazards		
Environmentally hazardo		no
14.6. Special precautions for	user	
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
4		liquids. A package shall not weigh more than 30 kg. (gross mass)
nland waterways (ADN) 14.1. UN number		
II IBI se come le est		1950
UN number		
14.2. UN proper shipping na	me	
14.2. UN proper shipping name		Aerosols
14.2. UN proper shipping na		Aerosols
14.2. UN proper shipping name		Aerosols
14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(
14.2. UN proper shipping nan Proper shipping name 14.3. Transport hazard class(Class		2
14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group		2
14.2. UN proper shipping nai Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group		2 5F
14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels	(es)	2
14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards	(es)	2 5F 2.1
14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazards	(es)	2 5F
14.2. UN proper shipping nan Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardc 14.6. Special precautions for	(es)	2 5F 2.1
14.2. UN proper shipping nan Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazards 14.6. Special precautions for	(es)	2 5F 2.1 no
14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazards 14.6. Special precautions for Special provisions Special provisions	(es)	2 5F 2.1 no 190 327
14.2. UN proper shipping nan Proper shipping name 14.3. Transport hazard class(Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazards 14.6. Special precautions for	(es)	2 5F 2.1 no

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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)
Sea (IMDG/IMSBC)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	, crossis
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	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
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 and the II	
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)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	no
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
limited quantities: maxim <mark>um net quantity per packaging</mark>	30 kg G

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	
18.2 % - 25.5 %			
172 g/l - 241 g/l			

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.

- 1				
		Designation of the substance, of the substances or of the mixture	group of	Conditions of restriction
· polymethylene polyphenyl isocyana	te	Liquid substances or mixtures which	are	1. Shall not be used in:
· alkanes, C14-17, chloro		regarded as dangerous in accordance	e with	 ornamental articles intended to produce light or colour effects by means of different
		Directive 1999/45/EC or are fulfilling	the	phases, for example in ornamental lamps and ashtrays,

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criteria for any of the following hazard classes or categories set out in Annex I to Regulation games for one or more participants, or any article intended to be used as such, even with (EC) No 1272/2008: ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 for fiscal reasons, or perfume, or both, if they: and 2, 2.14 categories 1 and 2, 2.15 types A to can be used as fuel in decorative oil lamps for supply to the general public, and, present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for (b) hazard classes 3.1 to 3.6, 3.7 adverse effects supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee on sexual function and fertility or on development, 3.8 effects other than narcotic for Standardisation (CEN).5. Without prejudice to the implementation of other Community effects, 3.9 and 3.10; provisions relating to the classification, packaging and labelling of dangerous substances and (c) hazard class 4.1: mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: (d) hazard class 5.1. 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 present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' National legislation Belgium Soudal SA Fill & Fix Foam No data available National legislation The Netherlands Soudal SA Fill & Fix Foam LWCA (the Netherlands): KGA category 06 Waste identification (the Netherlands) Waterbezwaarlijkheid Z (2) National legislation France Soudal SA Fill & Fix Foam No data available National legislation Germany Soudal SA Fill & Fix Foam WGK <mark>2; Classification water polluting</mark> based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) polymethylene polyphenyl isocyanate TA-Luft 5.2.5: I TRGS900 - Risiko der pMDI (als MDI berechnet); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des Fruchtschädigung biologischen Grenzwertes nicht befürchtet zu werden Sensibilisierende Stoffe 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); -Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -TRGS905 Fruchtbarkeitsgefährde<mark>nd</mark> Techn. ("Polymeres") MDI (pM</mark>DI) (in Form atembarer Aerosole, A-Fraktion); -TRGS905 - Fruchtschädigend pMDI (als MDI berechnet); H; Hautresorptiv Hautresorptive Stoffe alkanes, C14-17, chloro TA-Luft 5.2.5; 1 <mark>Chloralkane, C14-17 (Chloriert</mark>e Paraffine C14-17); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des TRGS900 - Risiko der Fruchtschädigung <mark>Arbeitsplatzgrenzwertes und d</mark>es biologischen Grenzwertes nicht befürchtet zu werden Hautresorptive Stoffe <mark>Chloralkane, C14-17(Chloriert</mark>e Paraffine C14-17); H; Hautresorptiv National legislation United Kingdom Soudal SA Fill & Fix Foam No data available polymethylene polyphenyl isocyanate socyanates, all (as -NCO) Except methyl isocyanate; Sen Skin Sensitisation socyanates, all (as -NCO) Except methyl isocyanate; Sen Respiratory sensitisation

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Other relevant data

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No data available

polymethylene polyphenyl isocyanate

IARC - classification 3; Polymethylene polyphenyl isocyanate

alkanes, C14-17, chloro

IARC - classification 2B; Chlorinated paraffins

15.2. Chemical safety assessment

alkanes, C14-17, chloro

A chemical safety assessment has been performed.

SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 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.
- H413 May cause long lasting harmful effects to aquatic life.

(*) INTERNAL CLASSIFICATION BY BIG

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	Acute	BIG
alkanes, C14-17, chloro	10	Chronic (NRD)	BIG

Specific concentration limits CLP

polymethylene polyphen	yl isocyanate	C≥5%	Eye Irrit 2;H319	analogous to Annex VI
		C≥5%	Skin Irrit 2;H315	analogous to Annex VI
		C≥0.1%	Resp Sens 1;H334	analogous to Annex VI
		C≥5%	STOT SE 3;H335	analogous to Annex VI

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1			1
alkanes, C14-17, chloro	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)
	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)
	0,25 % ≤ C ≤ 20 %	Aquatic Chron. 4;H413	FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet 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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