

SAFETY DATA SHEET

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

Soudal Gun Foam

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

1.1. Product identifier

Product name : Soudal Gun 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 **3** +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 **3** +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	categ <mark>ory 1</mark>	2: Extremely flammable aerosol.	
Aerosol	category 1	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.	
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.	
Acute Tox.	category 4	32: Harmful if inhaled.	
STOT RE	category 2	73: 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	categ <mark>ory 3</mark>	H335: May cause respiratory irritation.	
Aquatic Chronic	categ <mark>ory 4</mark>	H413: May cause long lasting harmful effects to aquatic life.	

2.2. Label elements







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

Signal word H-statements Danger

Extremely flammable aerosol.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be © BIG vzw

Reason for revision: 3 Revision number: 0903 Publication date: 2002-08-23

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H229	Pressurised container: May burst if heated.
H351	Suspected of causing cancer.
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.
H332	Harmful if inhaled.
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.
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.
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.
Commission and all informati	

Supplemental information

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

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
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)	Polymer
isobutane 01-2119485395-27		75-28-5 200-857-2		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
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
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
(1,3-butadiene, conc<0.1%)						

(18) Polymethylene polyphenyl isocyanate, contains > 0.1% MDI-isomers

- (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

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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 eve 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:

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. 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 explosion proof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

Reason for revision: 3

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.

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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

Germany

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 dip	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 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/m ³
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/m ³
		Short time value (Public occupational exposure limit value)	783 ppm
		Short time value (Public occupational exposure limit value)	1500 mg/m ³
France			
4,4'-Diisocyanate de dipl	nénylméthane	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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4,4'-Methylendiphenyldi <mark>isocyanat</mark>	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³
Chloralkane, C14-17 (Chlorierte 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/m ³
sobutan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m³
oMDI (als MDI berechnet <mark>)</mark>	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
		·

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	. , ,	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m³

USA (TLV-ACGIH)

Butane, all isomers	Short time value (TLV - Adopted Value)	1000 ppm
Methylene bisphenyl isocyanate (MDI)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.005 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	Long-term systemic effects inhalation	2 mg/m ³	
	Long-term systemic effects dermal	28.75 mg/kg bw/day	
	Long-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	0.2 μg/l	
STP	80 mg/l	
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	10 mg/kg food	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

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:

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Gloves.

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

- materials (good resistance)

LDPE (Low Density Poly Ethylene).

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

	1 3	
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 tempera	ture	No data available
Auto-ignition temperatu	re	Not applicable
Explosive properties		No chemical group associated with explosive properties
Oxidising properties		No chemical group associated with oxidising properties
рН		No data available

9.2. Other information

Absolute density 950 kg/m³; 20 °C

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

Precautionary measures

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

10.5. Incompatible materials

(strong) acids, (strong) bases.

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Soudal Gun Foam

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time			Remark
Oral	LD50		> 10000 mg/kg			determination Literature study	
Dermal	LD50		> 5000 mg/kg		1 1	Literature study	
Inhalation (vapours)	LD50		10 mg/l - 20 mg/l	4 h	Rat	Literature study	
Inhalation			category 4			Literature study	

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
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		> 48.170 mg/l air	1 h	Rat	Read-across	

Conclusion

Harmful if inhaled.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if swallowed

Corrosion/irritation

Soudal Gun Foam

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

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

alkanes, C14-17, chloro

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Slightly <mark>irritating</mark>				Rabbit	Expert judgement	
Skin	Slightly irritating	OECD 404	4 h	24; 72 hours	Rabbit	Expert judgement	

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Respiratory or skin sensitisation

Soudal Gun Foam

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

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

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alkanes, C14-17, chloro

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	U	Guinea pig maximisation test	48 hours	Guinea pig	Experimental value	

Conclusion

May cause an allergic skin reaction.

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

Specific target organ toxicity

Soudal Gun Foam

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

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

alkanes, C14-17, chloro

Route of exposure	Parame	ter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (diet)	NOAEL		Equivalent to OECD 408	300 ppm		No effect	13 weeks (daily)	Rat (male/female)	Experimental value
Oral (diet)	NOAEL		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

Conclusion

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

Not classified as sub-chronically toxic if swallowed

Not classified as sub-chronically toxic in contact with skin

Mutagenicity (in vitro)

Soudal Gun 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 Gun Foam

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	<mark>5 day</mark> (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 Gun Foam

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

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

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alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	. 3	Value determination
Oral	-	•	- 0, 0		Rat (male/female)	Carcinogenicity	Liver; kidney	Read-across
Oral	-	•	. 0, 0		Rat (male/female)	Carcinogenicity	Thyroid	Read-across

Conclusion

Suspected of causing cancer.

Reproductive toxicity

Soudal Gun Foam

No (test)data on the mixture available

Classification is based on the relevant ingredients

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)	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	LOAEL		3125 mg/kg bw		Rat (male/female)			Experimental value

Conclusion

May cause harm to breast-fed children.

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Soudal Gun Foam

No (test)data on the mixture available

alkanes, C14-17, chloro

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

Chronic effects from short and long-term exposure

Soudal Gun Foam

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 Gun Foam

No (test)data on the mixture available

Classification of the mixture is based on test data on the mixture as a whole

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

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kanes, C14-17, chloro	Parameter	Method	Valu	ne	Duration	Spe	ecies	Test de	sign	Fresh/salt water	Value determi
Acute toxicity fishes	LC50	Equivalent t	:0 > 50	000 mg	/l 96 h		urnus urnus	Static sy	ystem	Brackish water	Experimental v Nominal
Acute toxicity crustacea	EC50	OECD 202	0.00	06 mg/	l 48 h	Dap	ohnia magna	Static s	ystem	Fresh water	concentration Experimental v GLP
Toxicity algae and other aqual plants	tic NOEC	OECD 201	0.1	mg/l	96 h		eudokirchnerie subcapitata	Static s	ystem	Fresh water	Experimental v GLP
	ErC50	OECD 201	> 3.	2 mg/l	72 h		eudokirchnerie subcapitata	Static s	ystem	Fresh water	Experimental v
Long-term toxicity fish	NOEC	Equivalent t OECD 204	:0 > 12	25 μg/l			urnus	Semi-st system		Brackish water	Experimental v
Long-term toxicity aquatic crustacea	NOEC	OECD 202	0.01	L mg/l	21 day(s)	Dap	ohnia magna	Static s	ystem	Fresh water	Experimental v
l l	Parameter	Method			Value		Duration		Specie	S	Value determin
Toxicity soil macro-organisms	NOEC	OECD 22	22		900 mg/kg soil d	w	56 day(s)		Eisenia	fetida	Experimental va
Toxicity soil micro-organisms	NOEC	OECD 21	16		≥ 400 mg/kg soil		28 day(s)		Soil mi	cro-organisms	Experimental v
	EC50	OECD 21	16		> 400 mg/kg soil	dw	28 day(s)		Soil mi	cro-organisms	Experimental v
Toxicity terrestrial plants	NOEC	OECD 20			≥ 5000 mg/l		28 day(s)		_	a napus	Experimental va
Toxicity birds	LC50	Equivale 205			> 24603 mg/kg fo		5 day(s)			nus colchicus	Experimental va
	NOEC	Equivale 205	ent to (DECD	24603 mg/kg foo	od	5 day(s)		Phasia	nus colchicus	Experimental v
.2. Persistence and degrolymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg	<u>yanate</u>	Value < 60 %			Durat	tion			_	lue determina perimental valu	
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II)	<u>yanate</u>				Durat	tion			_		
Dlymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro	<u>yanate</u>				Durat	tion			_		
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II)	<u>yanate</u>				Durat				Exp		ue
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T	yanate gradability:	< 60 %				tion			Exp	perimental valu	tion
Olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T. Biodegradation soil	yanate gradability:	< 60 % Value 37 %; GLP			Durat 28 da	tion y(s)			Val	perimental valu lue determina perimental valu	tion ue
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T	yanate gradability:	< 60 %			Durat	tion y(s)			Val	perimental valu	tion ue
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Bioder Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T Biodegradation soil Method ontains non readily biodegradation. 3. Bioaccumulative potal Gun Foam Kow lethod Figure 1	gradability: est able component ential	Value 37 %; GLP Value 51 % - 57 %	Value		Durat 28 da Durat	ttion yy(s)	mperature		Val Exp Val Exp	ue determina perimental valu	tion ue tion ue
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T. Biodegradation soil Method ontains non readily biodegradation on tains non readily biodegradation. A. Bioaccumulative potal Gun Foam Kow lethod	gradability: est able component cential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 %			Durat 28 da Durat	ttion yy(s)	mperature		Val Exp Val Exp	ue determina perimental valu lue determina perimental valu	tion ue tion
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T Biodegradation soil Method Inclusion Inclusion Inclusion and it is is in the polyphenyl isocy Method Isocy	gradability: est able component cential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 %			Durat 28 da Durat	ttion yy(s)	nperature		Val Exp Val Exp	ue determina perimental valu lue determina perimental valu	tion ue tion
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T Biodegradation soil Method ontains non readily biodegradation on the contains non readily biodegradation water because the contains non readily biodegradation on the contains non readily biodegradation water because the contains non readily biodegradation on the contains non readily biodegradation water because the contains non readily because the contains non readily biodegradation water because the contains non readily because the contains n	gradability: est able component eential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 %	Value		Durat 28 da Durat 36 h	tion y(s) tion	nperature		Val Exp Val Exp	ue determina perimental valu ue determina perimental valu	tion ue tion ue
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T Biodegradation soil Method Inclusion Inclusion Inclusion and it is is in the polyphenyl isocy Method Isocy	gradability: est able component eential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 %	Value	uration	Durat 28 da Durat 36 h	Ten	mperature		Val Exp Val Exp	ue determina perimental valu ue determina perimental valu	tion ue tion ue tion ue tation
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T. Biodegradation soil Method ontains non readily biodegradations non readily biodegradations along the polyphenyl isocy BCF fishes Parameter Method	gradability: est able component eential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 %	Value		Durat 28 da Durat 36 h	Ten	mperature		Val Exp Val Exp	ue determina perimental valu ue determina perimental valu 'alue determin	tion ue tion ue tion ue tation
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T. Biodegradation soil Method ontains non readily biodegradations non readily biodegradations along the polyphenyl isocy BCF fishes Parameter Method	gradability: est able component eential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 %	Value		Durat 28 da Durat 36 h	Ten	mperature		Val Exp Val Exp	ue determina perimental valu ue determina perimental valu 'alue determin	tion ue tion ue tion ue tation
blymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T. Biodegradation soil Method Inclusion Inclusion Inclusion Biodegradation water Method Ontains non readily biodegradations on the polyphenyl isocy Biodegradation soil Method Inclusion Inclus	gradability: est able component eential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 % E(s)	Value		Durat 28 da Durat 36 h	Ten cies es	mperature		Val Exp Val Exp	ue determina perimental valu ue determina perimental valu 'alue determin	tion ue tion ue tion ue tation ee termination e study
olymethylene polyphenyl isocy Biodegradation water Method OECD 302C: Inherent Biodeg Modified MITI Test (II) kanes, C14-17, chloro Biodegradation water Method OECD 301D: Closed Bottle T. Biodegradation soil Method ontains non readily biodegradation soil accumulative potal Gun Foam Kow Iethod Ieth	gradability: est able component cential Remark Not applicable (r	Value 37 %; GLP Value 51 % - 57 % E(s)	Value	uration	Durat 28 da Durat 36 h	Ten cies es		n date:	Val	verimental value determinate d	tion ue tion ue tion ue tation ee termination e study

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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			

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

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

Soudal Gun 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 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. 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

Road (ADR) 14.1. UN number 1950 **UN** number 14.2. UN proper shipping name Proper shipping name Aerosols 14.3. Transport hazard class(es) Hazard identification number Class Classification code 5F 14.4. Packing group Packing group 2.1 Labels 14.5. Environmental hazards Environmentally hazardous substance mark no

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14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions	190
Special provisions Special provisions	
Special provisions	327
	344
	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
Ellinea quantities	liquids. A package shall not weigh more than 30 kg. (gross mass)
eail (RID)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	AC103013
Hazard identification number	23
Class	2
Classification code	5F
14.4. Packing group	51
Packing group	
Labels	2.1
14.5. Environmental hazards	2.1
Environmentally hazardous substance mark	no
14.6. Special precautions for user	Į I IV
Special provisions	190
Special provisions	327
	344
Special provisions	625
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)
nland waterways (ADN)	
14.1. UN number	
UN number	1950
	1320
14.2. UN proper shipping name	Agracola
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	lean
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
CO (IMPO (IMPO)	[-4
ea (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)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	
Environmentally hazardo <mark>us substance mark</mark>	no
14.6. Special precautions for user	
Special provisions	63
Special provisions	190
Special provisions	277
Special provisions	327
on for revision: 3	Publication date: 2002-08-23

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	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 accor	ding to Annex II of Marpol and the IBC	Code	
	Annex II of MARPOL 73/	78		Not applicable
Air (I	CAO-TI/IATA-DGR)			
-	1. UN number			
	UN number			1950
14.	2. UN proper shipping na	me		
	Proper shipping name			Aerosols, flammable
14.	3. Transport hazard class	(es)		
	Class			2.1
	4. Packing group			
	Packing group			
	Labels			2.1
14.	Environmental hazards			
	Environmentally hazardo	ous substance mark		no
14.	Special precautions for	user		
	Special provisions			A145
	Special provisions			A167
	Special provisions			A802
	Limited quantities: maxii	mum net quantity per packaging		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	
< 38.69 %			
< 367.56 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.

	Designation of the substance, of the group of	f Conditions of restriction
	substances or of the mixture	
· polymethylene polyphenyl isocyanat	e Liquid substances or mixtures which are	1. Shall not be used in:
· alkanes, C14-17, chloro	regarded as dangerous in accordance with	 ornamental articles intended to produce light or colour effects by means of different
	Directive 1999/45/EC or are fulfilling the	phases, for example in ornamental lamps and ashtrays,
	criteria for any of the following hazard classe	es – tricks and jokes,
	or categories set out in Annex I to Regulation (EC) No 1272/2008:	— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
	(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8	2. Articles not complying with paragraph 1 shall not be placed on the market.
	types A and B, 2.9, 2.10, 2.12, 2.13 categorie	s 13. Shall not be placed on the market if they contain a colouring agent, unless required for
	and 2, 2.14 categories 1 and 2, 2.15 types A	to fiscal reasons, or perfume, or both, if they:
	F;	— can be used as fuel in decorative oil lamps for supply to the general public, and,
	(b) hazard classes 3.1 to 3.6, 3.7 adverse	— present an aspiration hazard and are labelled with R65 or H304,
	effects on sexual function and fertility or on	4. Decorative oil lamps for supply to the general public shall not be placed on the market
	development, 3.8 effects other than narcoti	
	effects, 3.9 and 3.10;	by the European Committee for Standardisation (CEN).
	(c) hazard class 4.1;	5. Without prejudice to the implementation of other Community provisions relating to the
	(d) hazard class 5.1.	classification, packaging and labelling of dangerous substances and mixtures, suppliers shall
		ensure, before the placing on the market, that the following requirements are met:
		a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly,
		legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of
		children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of
		lamps — may lead to life- threatening lung damage";
		b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are
		legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may
		lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general
		public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
		6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency
		to prepare a dossier, in accordance with Article 69 of the 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

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		H304 to the competent authority in the Member State concerned. Member States sha make those data available to the Commission.'
olymethylene polyphenyl isocyanate	Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4'-	1. Shall not be placed on the market after 27 December 2010, as a constituent of mixt
	Methylenediphenyl diisocyanate; 2,4'- Methylenediphenyl diisocyanate; 2,2'-	public, unless suppliers shall ensure before the placing on the market that the packagi (a) contains protective gloves which comply with the requirements of Council Directiv
	Methylenediphenyl diisocyanate	89/686/EEC;(b) is marked visibly, legibly and indelibly as follows, and without prejudice to otherCommunity legislation concerning the classification, packaging and labelling of substar
		and mixtures: "— Persons already sensitised to diisocyanates may develop allergic reactions when u this product.
		 Persons suffering from asthma, eczema or skin problems should avoid contact, incl dermal contact, with this product.
		 This product should not be used under conditions of poor ventilation unless a prote mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is us By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.
National legislation Belgium		
Soudal Gun Foam No data available		
National legislation The Netherla Soudal Gun Foam	<u>ınds</u>	
Waterbezwaarlijkheid	Z (2)	
, , , , ,	A (2)	
National legislation France		
Soudal Gun Foam No data available		
polymethylene polyphenyl iso		
Catégorie cancérogène	4,4'-Diisocyanate de diphénylméthane;	C2
National legislation Germany		
Soudal Gun Foam WGK	2: Classification water polluting based (on the components in compliance with Verwaltungsvorschrift wassergefährde
WOK	Stoffe (VwVwS) of 27 July 2005 (Anhang	
polymethylene polyphenyl iso		
TA-Luft TRGS900 - Risiko der	5.2.5; I	icika dar Erushtechädigung braucht hai Einhaltung das Arhaitsplatzgranzwart
Fruchtschädigung	und des biologischen Grenzwertes nich	
	pMDI (als MDI berechnet); Y; Risiko der biologischen Grenzwertes nicht befürch	r Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und c htet zu werden
Sensibilisierende Stoffe	4,4'-Methylendiphenyldiisocyanat; Sah, Zielorganen Allergien auslösende	; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beid
TDCCOOL Vrobcorzougond	pMDI (als MDI berechnet); Sa; Atemwe	
TRGS905 - Krebserzeug <mark>end</mark> TRGS905 - Erbgutverändern	Techn. ("Polymeres") MDI (pMDI) (in Fo	
TRGS905 - Fruchtbarkeitsgefährdend	Techn. ("Polymeres") MDI (pMDI) (in Fo	
TRGS905 - Fruchtschädigen	, , , , , , , , , , , , , , , , , , , ,	
Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocyanat; H; H pMDI (als MDI berechnet); H; Hautreso	
alkanes, C14-17, chloro	pivior (als ivior berechnet), 11, Hautreso	при
	5.2.5; I	
TA-Luft		
TRGS900 - Risiko der	Chloralkane, C14-17 (Chlorierte Paraffi	ine C14-17); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des
TRGS900 - Risiko der Fruchtschädigung	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog	gischen Grenzwertes nicht befürchtet zu werden
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi	gischen Grenzwertes nicht befürchtet zu werden
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingc	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi	gischen Grenzwertes nicht befürchtet zu werden
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi	gischen Grenzwertes nicht befürchtet zu werden
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingo Soudal Gun Foam No data available polymethylene polyphenyl iso	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingo Soudal Gun Foam No data available polymethylene polyphenyl iso Skin Sensitisation	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom Decyanate Isocyanates, all (as -NCO) Except meth	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingo Soudal Gun Foam No data available polymethylene polyphenyl iso Skin Sensitisation Respiratory sensitisation	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingo Soudal Gun Foam No data available polymethylene polyphenyl iso Skin Sensitisation Respiratory sensitisation Other relevant data	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom Decyanate Isocyanates, all (as -NCO) Except meth	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingo Soudal Gun Foam No data available polymethylene polyphenyl iso Skin Sensitisation Respiratory sensitisation	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom Decyanate Isocyanates, all (as -NCO) Except meth	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kingo Soudal Gun Foam No data available polymethylene polyphenyl iso Skin Sensitisation Respiratory sensitisation Other relevant data Soudal Gun Foam	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom Covanate	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kinge Soudal Gun Foam No data available polymethylene polyphenyl ise Skin Sensitisation Respiratory sensitisation Other relevant data Soudal Gun Foam No data available	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom ocyanate Isocyanates, all (as -NCO) Except methologyanates, all (as -NCO) Except methologyanates, all (as -NCO) Except methologyanates	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kinge Soudal Gun Foam No data available polymethylene polyphenyl ise Skin Sensitisation Respiratory sensitisation Other relevant data Soudal Gun Foam No data available polymethylene polyphenyl ise	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom Covanate	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen yl isocyanate; Sen
TRGS900 - Risiko der Fruchtschädigung Hautresorptive Stoffe National legislation United Kinge Soudal Gun Foam No data available polymethylene polyphenyl ise Skin Sensitisation Respiratory sensitisation Other relevant data Soudal Gun Foam No data available polymethylene polyphenyl ise	Chloralkane, C14-17 (Chlorierte Paraffi Arbeitsplatzgrenzwertes und des biolog Chloralkane, C14-17 (Chlorierte Paraffi dom Covanate	gischen Grenzwertes nicht befürchtet zu werden ine C14-17); H; Hautresorptiv yl isocyanate; Sen yl isocyanate; Sen

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alkanes, C14-17, chloro			
IARC - classification	2B; Chlorinated paraffins		

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

alkanes, C14-17, chloro

A chemical safety assessment has been performed.

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.
- 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 polyphenyl 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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alkanes, C14-17, chloro	1,0 % ≤ C ≤ 20 %		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)
			,

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