

SAFETY DATA SHEET

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

Soudafoam Gun

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

1.1 Product identifier:

Product name : Soudafoam Gun
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 Tel: +32 14 42 42 31 Fax: +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

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

1.4 Emergency telephone number:

24h/24h: +32 14 58 45 45 (BIG) (Telephone advice: English, French, German, Dutch)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

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

Class	Category	Hazard statements
Flam. Aerosol	categ <mark>ory 1</mark>	H222: Extremely flammable aerosol.
Carc.	category 2	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.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H335: May cause respiratory irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Resp. Sens.	categ <mark>ory 1</mark>	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	categ <mark>ory 1</mark>	H317: May cause an allergic skin reaction.
Aquatic Chronic	categ <mark>ory 4</mark>	H413: May cause long lasting harmful effects to aquatic life.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F+; R12 - Extremely flammable.

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

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be

© BIG vzw

Reason for revision: 2.2 Revision number: 0700 Publication date: 2002-08-23
Date of revision: 2013-08-29

134-15960-397-6

1/16

Product number: 38451

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

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

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

R64 - May cause harm to breastfed babies.

R53 - May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

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







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

Contains polymetrylene	orypheny isocyanace, analies, er i 17, emoro,.			
Signal word	Danger			
H-statements				
H222	Extremely flammable aerosol.			
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/sparks/open flames/hot surfaces No smoking.			
P251	Pressurized container: Do not pierce or burn, even after use.			
P280	Wear protective gloves and eye protection/face protection.			
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.			
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/ 122°F.			
P501	Dispose of contents/container to manufacturer/competent authority.			

Supplemental information

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

Publication date: 2002-08-23

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

On grounds of experience and test data, the classification for this preparation is less stringent than the one imposed by the criteria of the conventional method referred to in Directive 1999/45/EC

Labels





Contains: polymethylene polyphenyl isocyanate.

R-phrases

20	Harmful by inhalation
36/37/38	Irritat <mark>ing to eyes, respiratory system and ski</mark> n
40	Limited evidence of a carcinogenic effect
42/43	May cause sensitisation by inhalation and skin contact
48/20	Harm <mark>ful: danger of serious damage to healt</mark> h by prolonged exposure through inhalation
53	May cause long-term adverse effects in the aquatic environment
64	May cause harm to breastfed babies

S-phrases

Reason for revision: 2.2

02 Keep out of the reach of children

Keep away from sources of ignition - No smoking 16

Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 2/16

23	Do n <mark>ot breathe spray</mark>
36/37	Wear suitable protective clothing and gloves
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
51	Use o <mark>nly in well-ventilated areas</mark>
61	Avoid release to the environment. Refer to special instructions/safety data sheets.
(63)	(In case of accident by inhalation; remove casualty to fresh air and keep at rest)

Additional recommendations

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

Do not pierce or burn, even after use.

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

Contains isocyanates. See information supplied by the manufacturer.

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

2.3 Other hazards:

CLP

May be ignited by sparks

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

DSD/DPD

May be ignited by sparks

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

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
alkanes, C14-17, chloro; (01-2119519269-33)	85535-85-9 287-477-0	2.5% <c<20%< th=""><th>R66</th><th>Lact. ; H362 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</th><th>(1)(2)(10)</th><th>Constituent</th></c<20%<>	R66	Lact. ; H362 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent
polymethylene polyphenyl isocy <mark>ana</mark>	ate (-) 9016-87-9	C>25%	Xi; R36/37/38 R42/43	Carc. 2; H351 Acute Tox. 4; H332 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	(1)(2)(10)	Constituent
propane (-)	74-98-6 200-827-9	1% <c<10%< td=""><td></td><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
isobutane (-)	75-28-5 200-857-2	1% <c<10%< td=""><td>F+; R12</td><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
dimethyl ether (01-2119472128- <mark>37</mark>	') 115-10-6 204-065-8	1% <c<20%< td=""><td>F+; R12</td><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<20%<>	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%) (-)						

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

SECTION 4: First aid measures

4.1 Description of first aid measures: General:

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 3 / 16

⁽²⁾ Substance with a Community workplace exposure limit

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

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. 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:

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

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

5.3.1 Instructions:

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

5.3.2 Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

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

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Dam up the 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. Take collected spill to manufacturer/competent authority. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 4 / 16

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.

Short time value

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

The Netherlands Dimethylether

		1300 1116/111	
	Time-weighted average exposure limit 8 h	496 ppm 950 mg/m³	Public occupational exposure limit value
EU			
Dimethylether	Time-weighted average exposure limit 8 h	1000 ppm 1920 mg/m³	Indicative occupational exposure limit value
Belgium			
Oxyde de diméthyle	Time-weighted average exposure limit 8 h	1000 ppm 1920 mg/m³	
Hydrocarbures aliphatiqu <mark>es sous f</mark> gazeuse : (Alcanes C1-C4)	orme Time-weighted average exposure limit 8 h	1000 ppm	
	Time-weighted average exposure limit 8 h	1000 ppm	
USA (TLV-ACGIH)			
Butane, all isomers	Time-weighted average exposure limit 8 h	1000 ppm	TLV - Adopted Value

783 ppm

1500 mg/m³

Public occupational exposure limit value

Germany

Isobutan		Time-weighted averag	e exposure	1000 ppm 2400 mg/m³	TRGS 900
Dimethylether		Time-weighted averag	e exposure	1000 ppm 1900 mg/m³	TRGS 900
Propan		Time-weighted averag	e exposure	1000 ppm 1800 mg/m³	TRGS 900
Chloralkane, C14-17 (Chl C14-17)	lorierte Paraffine	Time-weighted averag	e exposure	0.3 ppm 6 mg/m³	TRGS 900

France

Oxyde de diméthyle	Time-weighted averag	e exposure	e limit 8 h	1000 ppm	١	/RI: Valeur réglementaire indicative
				1920 mg/m³		

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 5 / 16

UK

UK					
Isocyanates, all (as -NCO) isocyanate	Except methyl	Short time value		0.07 mg/m ³	Workplace exposure limit (EH40/2005)
		Time-weighted averag	e exposure limit 8 h	0.02 mg/m ³	Workplace exposure limit (EH40/2005)
Dimethyl ether		Short time value		500 ppm 958 mg/m³	Workplace exposure limit (EH40/2005)
		Time-weighted averag	e exposure limit 8 h	400 ppm 766 mg/m³	Workplace exposure limit (EH40/2005)

b) National biological limit values

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

8.1.2 Sampling methods

Product name	Test	Number
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 - Workers

alkanes, C14-17, chloro;

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

DNEL - General population

alkanes, C14-17, chloro;

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Long-term systemic effects dermal	28.75 mg/kg bw/day	
		Long-term systemic effects inhalation	2 mg/m ³	
		Long-term systemic effects oral	0.58 mg/kg bw/day	

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:

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		<mark>No data availa</mark> ble
Colour		Variable in colour, depending on the composition
Particle size		Not applicable

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 6 / 16

Explosion limits	ſ	No data available					
Flammability	E	Extremely flammable aerosol.					
Log Kow		Not applicable (mixture)					
Dynamic viscosity		No data available					
Kinematic viscosity	I	No data available					
Melting point		No data available					
Boiling point		No data available					
Flash point		No data available					
Evaporation rate	1	No data available					
Vapour pressure		No data available					
Relative vapour density		>1					
Solubility		water ; soluble					
		organic solvents ; insoluble					
		water ; insoluble					
Relative density	(0.95					
Decomposition temperatur	re I	No data available					
Auto-ignition temperature		No data available					
Explosive properties		No chemical group associated with explosive properties					
Oxidising properties		No chemical group associated with oxidising properties					
рН	I	No data available					

Physical hazards

Flammable aerosol

9.2 Other information:

<u> </u>				
Absolute density	g	950 kg/m³		

SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid

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

10.5 Incompatible materials:

(strong) acids, (strong) bases.

10.6 Hazardous decomposition products:

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (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

Soudafoam Gun

No (test)data on the mixture available

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 7 / 16

alkanes, C14-17, chloro;

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination
Oral	LD50	Other	>10 ml/kg bw		Rat		Experimental value
Oral	LD50	Other	>4000 ml/kg bw		Rat	Male/female	Experimental value
Dermal	LD50		>13500 mg/kg bw	24 h	Rabbit		Read-across
Dermal	LD50		>2800 mg/kg bw	24 h	Rat		Read-across
Inhalation	LC50	Other	>3.3 mg/l	1 h	Rat		Read-across
Inhalation (vapours)	LC50	Other	>48170 mg/m³	1 h	Rat		Read-across

polymethylene polyphenyl isocyanate

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

Classification is based on the relevant ingredients

Conclusion

Harmful if inhaled.

Corrosion/irritation

Soudafoam Gun

No (test)data on the mixture available

alkanes, C14-17, chloro;

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

polymethylene polyphenyl isocyanate

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

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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

Respiratory or skin sensitisation

Soudafoam Gun

No (test)data on the mixture available

alkanes, C14-17, chloro;

Route of exposure	Result	Method	 Observation time point	Species		Value determination
Skin	Not sensi <mark>tizing</mark>	Other	48 hours	Guinea pig		Experimental value
 al accepted to a control of					<u> </u>	

polymethylene polyphenyl isocyanate

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

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

Soudafoam Gun

No (test)data on the mixture available

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 8 / 16

alkanes, C14-17, chloro;

Route of exposure	Paramete	er Method	Value	Organ	Effect	Exposure time	Species		Value determination
Oral	NOAEL	Equivalent to OECD 408	300 ppm	Liver; kidney	No adverse systemic effects	13 week(s)	Rat	Male/femal e	Experimental value
Oral	NOAEL	Equivalent to OECD 408	100 mg/kg bw/day	Kidney	No adverse systemic effects	13 week(s)	Rat	Male/femal e	Experimental value

polymethylene polyphenyl isocyanate

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

Classification is based on the relevant ingredients

Conclusion

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

Low sub-chronic toxicity by the dermal route

Low sub-chronic toxicity by the oral route

Mutagenicity (in vitro)

Soudafoam Gun

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)		Experimental value
activation, negative without				
metabolic activation				

Mutagenicity (in vivo)

Soudafoam Gun

No (test)data on the mixture available

alkanes, C14-17, chloro;

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
-0	Equivalent to OECD 475	5 day(s)	Rat	Male		Experimental value
-0	Equivalent to OECD		Mouse	Male/female	Bone marrow	Experimental value

Carcinogenicity

Soudafoam Gun

No (test)data on the mixture available

alkanes, C14-17, chloro;

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination	Organ	Effect
Oral	_	•	- 0, 0	104 weeks (5 days/week)	Rat	Male/female	Read-across		
Oral	_	•	O, O	103 weeks (5 days/week)	Mouse	Male/female	Read-across		

polymethylene polyphenyl isocyanate

orymetrylene porypheryr 130eyanate										
Route of	f Parameter	Method	Value	Exposure time	Species	Gender	Value	Organ	Effect	
exposur	e						determination			
Inhalatio	on		category 2		Rat		Literature study		Neoplastic	
(aerosol))								effects	

Reproductive toxicity

Soudafoam Gun

No (test)data on the mixture available

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 9 / 16

alkanes, C14-17, chloro;

	Parameter	Method		Exposure time	Species	Gender	Effect	- 3	Value determination
Developmental toxicity	LOAEL		3125 mg/kg bw/day		Rat	Female			Experimental value
	NOAEL (F1)		100 mg/kg bw/day		Rat	Male/female	No effect		Experimental value
Effects on fertility	NOAEL (P)		100 mg/kg bw/day	9 week(s)	Rat	Male	No effect		Experimental value
	NOAEL (P)		100 mg/kg bw/day	11-12 week(s)	Rat	Female	No effect		Experimental value

Classification is based on the relevant ingredients

Conclusion CMR

Suspected of causing cancer.

May cause harm to breast-fed children.

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Toxicity other effects

Soudafoam Gun

No (test)data on the mixture available

alkanes, C14-17, chloro;

 inco, er i ri, cine	<u> </u>						
Parameter	Method	Value	Organ	Effect	Exposure time	Species	 Value determination
	Other		Skin	Skin dryness or		Rat	Experimental
				cracking			value

Chronic effects from short and long-term exposure

Soudafoam Gun

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.

SECTION 12: Ecological information

12.1 Toxicity:

Soudafoam Gun

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

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

Conclusion

Reacts by forming substances having a decreased toxicity

Not classified for acute aquatic toxicity

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)			

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Log Kow

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

 Revision number: 0700
 Product number: 38451
 10 / 16

Method		Remark	Value	Temperature	Value determination
		Not applicable (mixture)			

alkanes, C14-17, chloro;

Log Kow

Method	Remark	Value	Temperature	Value determination
		> 5		

polymethylene polyphenyl isocyanate

BCF fishes

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

Log Kow

LC	y kow						
,	Method		Remark	Value	Temperature	Value determination	
			No data available				

Conclusion

Contains bioaccumulative component(s)

12.4 Mobility in soil:

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

12.5 Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

Soudafoam Gun

Global warming potential (GWP)

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

Ozone-depleting potential (ODP)

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

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

08 05 01* (waste isocyanates).

16 05 04* (gases in pressure containers (including halons) containing dangerous substances). Depending on branch of industry and production process, also other EURAL codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

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

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: UN number 1950 14.2 UN proper shipping name: Proper shipping name Aerosols 14.3 Transport hazard class(es): Hazard identification number Class 5F Classification code 14.4 Packing group: Packing group 2.1 Labels

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 11/16

14.5 Environmental hazards:		
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:	koo	
Special provisions	190	
Special provisions	327	
Special provisions	344	
Special provisions	625	
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)	
I (RID)		
14.1 UN number:		
UN number	1950	
14.2 UN proper shipping name:	1555	
Proper shipping name	Aerosols	
14.3 Transport hazard class(es):	1.00000	
Hazard identification number	23	
Class	23	
Classification code	5F	
14.4 Packing group:	μ	
Packing group Labels	2.1	
	2.1	
14.5 Environmental hazards:		
Environmentally hazardous substance mark	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 fo liquids. A package shall not weigh more than 30 kg. (gross mass)	
UN number 14.2 UN proper shipping name:	1950	
Proper shipping name	Aerosols	
14.3 Transport hazard class(es):		
Class	2	
Classification code	5F	
14.4 Packing group:		
14.4 Packing group: Packing group		
Packing group	2.1	
Packing group Labels	2.1	
Packing group Labels 14.5 Environmental hazards:		
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark	2.1 no	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user:		
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions	no 190	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions	190 327	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions	190 327 344	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Special provisions Special provisions	190 327 344 625	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions	190 327 344	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Limited quantities	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Special provisions Special provisions	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Limited quantities	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Limited quantities 1 (IMDG/IMSBC) 14.1 UN number: UN number	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Limited quantities 1 (IMDG/IMSBC) 14.1 UN number: UN number 14.2 UN proper shipping name:	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Special provisions Limited quantities 14.1 UN number: UN number 14.2 UN proper shipping name: Proper shipping name	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Limited quantities 14.1 UN number: UN number: UN number 14.2 UN proper shipping name: Proper shipping name 14.3 Transport hazard class(es):	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass) 1950 Aerosols	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Limited quantities 1 (IMDG/IMSBC) 14.1 UN number: UN number: UN number 14.2 UN proper shipping name: Proper shipping name 14.3 Transport hazard class(es): Class	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)	
Packing group Labels 1.4.5 Environmental hazards: Environmentally hazardous substance mark 1.4.6 Special precautions for user: Special provisions Special provisions Special provisions Limited quantities 1.4.1 UN number: UN number: UN number 1.4.2 UN proper shipping name: Proper shipping name 1.4.3 Transport hazard class(es): Class Clas	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass) 1950 Aerosols	
Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Special provisions Special provisions Limited quantities 1 (IMDG/IMSBC) 14.1 UN number: UN number: UN number 14.2 UN proper shipping name: Proper shipping name 14.3 Transport hazard class(es): Class 14.4 Packing group: Packing group	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass) 1950 Aerosols 2.1	
Packing group Labels 1.4.5 Environmental hazards: Environmentally hazardous substance mark 1.4.6 Special precautions for user: Special provisions Special provisions Special provisions Limited quantities 1.4.1 UN number: UN number: UN number 1.4.2 UN proper shipping name: Proper shipping name 1.4.3 Transport hazard class(es): Class Clas	190 327 344 625 Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass) 1950 Aerosols	

Revision number: 0700 Product number: 38451 12 / 16

Soudafoam Gun			
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	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 73,	/78 and the IBC Code:		
Annex II of MARPOL 73/78	Not applicable		
r (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 hazardous substance mark	no		
14.6 Special precautions for user:			
Special provisions	A145		
Special provisions	A167		
Special provisions	A802		
Passenger and cargo tr <mark>ansport: limited quantities: maxi</mark> per packaging	imum net quantity 30 kg G		

SECTION 15: Regulatory information

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

European legislation:

Revision number: 0700

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 t substances or of the mixture	of the group of Conditions of restriction
· alkanes, C14-17, chloro;	Liquid substances or mixtures wh	
· polymethylene polyphenyl isocya <mark>na</mark>	S S	, o
		Ifilling the criteria phases, for example in ornamental lamps and ashtrays,
	for any of the following hazard cla	
	categories set out in Annex I to Re	
	No 1272/2008:	ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the
	(a) hazard classes 2.1 to 2.4, 2.6 a	
		2.13 categories 1 for fiscal reasons, or perfume, or both, if they:
	and 2, 2.14 categories 1 and 2, 2.3	,, ,, ,
	F;	 present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for
		7 adverse effects supply to the general public shall not be placed on the market unless they conform to the
	on sexual function and fertility or	
	development, 3.8 effects other th	rthan 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
	(d) hazard class 5.1.	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,
son for revision: 2.2		Publication date: 2002-08-23
3011 101 1EVISIUII. 2.2		Fublication date. 2002-08-23

Date of revision: 2013-08-29

13 / 16

Product number: 38451

				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.'
· propane		Substances classified as flammable g	gases	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol
· isobutane				dispensers are intended for supply to the general public for entertainment and decorative
· dimethyl ether		2 or 3, flammable solids category 1 o		purposes such as the following:
		The state of the s		— metallic glitter intended mainly for decoration,
		water, emit flammable gases, catego		— artificial snow and frost, — "whoopee" cushions,
		pyrophoric liquids category 1 or py solids category 1, regardless of whet		— silly string aerosols,
		appear in Part 3 of Annex VI to that F		— imitation excrement,
		or not.	riegulation.	— horns for parties,
			ļ	— decorative flakes and foams,
			ļ	— artificial cobwebs,
			ļ	— stink bombs.2. Without prejudice to the application of other Community provisions on the
				classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly,
				legibly and indelibly with:
				"For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to
				the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The
				aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless
				they conform to the requirements indicated.
· polymethylene polyphenyl isocyan	nate	Methylenediphenyl diisocyanate (MI	iDI)	1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in
		including the following specific isome		concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general
		Methylenediphenyl diisocyanate; 2,4		public, unless suppliers shall ensure before the placing on the market that the packaging: (a)
		Methylenediphenyl diisocyanate; 2,2		contains protective gloves which comply with the requirements of Council Directive
		Methylenediphenyl diisocyanate		89/686/EEC; (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of
				substances and mixtures: "— Persons already sensitised to diisocyanates may develop
				allergic reactions when using this product. — Persons suffering from asthma, eczema or skin
				problems should avoid contact, including dermal contact, with this product. — This product
				should not be used under conditions of poor ventilation unless a protective mask with an
				appropriate gas filter (i.e. type A1 according to standard EN 14387) is used."2. By way of
				derogation, paragraph 1(a) shall not apply to hot melt adhesives.
Volatile organic compou	unds (VO	C)		
20 %				
National legislation The Ne	therland	s		
		_		
Soudafoam Gun			. 24	
Waste identification (t	the	LWCA (the Netherlands): KGA ca	ategory 06	
Netherlands)				
Waterbezwaarlijkheid	l	10		
National legislation German	<u>ny</u>			
Soudafoam Gun				
WGK		1. Classification water polluting	hased on	the components in compliance with Verwaltungsvorschrift wassergefährdender
WGK		Stoffe (VwVwS) of 27 July 2005	_	
		Storie (************************************	(/ timang i	
alkanes, C14-17, chloro;				
MAK - Krebserzeugen	d	3B		
Kategorie				
TA-Luft		TA-Luft Klasse 5.2.5/I		
polymethylene polyphe	nyl isocva	anate		
TRGS905 - Krebserzeu		3		
TRGS905 - Erbgutverä	nuema			
TRGS905 -		-		
Fruchtbarkeitsgefährd				
TRGS905 - Fruchtschä	digend	-	//	
MAK - Krebserzeugen	d	4		
Kategorie				
Schwangerschaft Grup	nne	C		
MAK 8-Stunden-Mitte	elwert	"polymeres MDI" (einatembare	e Fraktion)	; 0.05 mg/m³; gemessen als einatembare Fraktion (vgl. Abschn. Vd) S. 191)
mg/m³				
<u>propane</u>				
TA-Luft		TA-Luft Klasse 5.2.5		
Schwangerschaft Grup	nne	D		
MAK 8-Stunden-Mitte	eiwert	Propan; 1000 ppm		
ppm				
MAK 8-Stunden-Mitte	elwert	Propan; 1800 mg/m ³		
mg/m³			7	
mg/m				
ing/iii				
mg/m				
ing/iii				
				Publication date: 2002-08-23
son for revision: 2.2				Publication date: 2002-08-23
				Publication date: 2002-08-23 Date of revision: 2013-08-29

 Revision number: 0700
 Product number: 38451
 14 / 16

<u>isobutane</u>	
TA-Luft	TA-Luft Klasse 5.2.5
Schwangerschaft Gru <mark>ppe</mark>	D
MAK 8-Stunden-Mitte <mark>lwert</mark> ppm	Butan (beide Isomeren); 1000 ppm
MAK 8-Stunden-Mittelwert mg/m³	Butan (beide Isomeren); 2400 mg/m³
dimethyl ether	

dimethyl ether

TA-Luft	TA-Luft Klasse 5.2.5	
Schwangerschaft Gruppe	D	
MAK 8-Stunden-Mittelwert	Dimethylether; 1000 ppm	
ppm		
MAK 8-Stunden-Mittelwert	Dimethylether; 1900 mg/m ³	
mg/m³		

National legislation France

Soudafoam Gun

No data available

National legislation Belgium

Soudafoam Gun

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Information based on classification according to CLP

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

R20 Harmful by inhalation

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

R40 Limited evidence of a carcinogenic effect

R42/43 May cause sensitisation by inhalation and skin contact

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

R50 Very toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

R64 May cause harm to breastfed babies

R66 Repeated exposure may cause skin dryness or cracking

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

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

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.

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

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

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

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

Specific concentration limits DSD

alkanes, C14-17, chloro;	1,0 % ≤ C ≤ 20 %	N;R 53-64	European Adhesive and Sealant Industry
	0,25 % ≤ C ≤ 1,0 %	N;R 53	European Adhesive and Sealant Industry

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

Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

Revision number: 0700 Product number: 38451 15 / 16

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 is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. 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.



Reason for revision: 2.2 Publication date: 2002-08-23
Date of revision: 2013-08-29

 Revision number: 0700
 Product number: 38451
 16 / 16