

SAFETY DATA SHEET

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

Fire & Acoustic B1 Expanding Foam

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

1.1. Product identifier

Product name Registration number REACH Product type REACH

- : Fire & Acoustic B1 Expanding Foam : Not applicable (mixture)
- : 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 **2** +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 T +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):

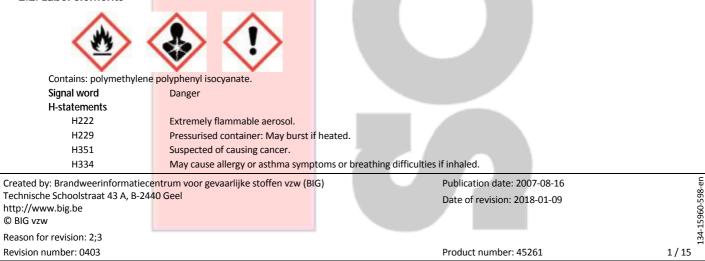
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dat	ngerous a <mark>ccording to</mark>	the criteria of Regulation (EC) No 1272/2008
Class	Category	Hazard statements
Aerosol	categ <mark>ory 1</mark>	H222: Extremely flammable aerosol.
Aerosol	categ <mark>ory 1</mark>	H229: Pressurised container: May burst if heated.
Carc.	categ <mark>ory 2</mark>	H351: Suspected of causing cancer.
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.
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.
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.

2.2. Label elements



	1 5
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.
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.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Supplemental information	o <mark>n</mark>
	- 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.

- 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 isoc	yanate	9016-87-9		C>25%	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
propane 01-2119486944-21		74-98-6 200-827-9		1% <c<10%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas;</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
isobutane 01-2119485395-27		75-28-5 200-857-2		1% <c<10%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas;</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
dimethyl ether 01-2119472128-37		115-10-6 204-065-8		1% <c<10%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas;</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%)							
reaction mass of tris(2-chlorop tris(2-chloro-1-methylethyl) ph acid, bis(2-chloro-1-methylethy and phosphoric acid, 2-chloro-2 chloropropyl) ester 01-2119486772-26	osphate and phosphoric I) 2-chloropropyl ester			1% <c<25%< td=""><td>Acute Tox. 4; H302</td><td>(1)(10)</td><td>Constituent</td></c<25%<>	Acute Tox. 4; H302	(1)(10)	Constituent

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

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek m<mark>edical advice.</mark>

After inhalation:

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

Reason for revision: 2;3

Publication date: 2007-08-16 Date of revision: 2018-01-09

Revision number: 0403

Product number: 45261

After skin contact:

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

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms After inhalation:

Dry/sore throat. Coughin<mark>g. Irritation of the respiratory tract. Irr</mark>itation of the nasal mucous membranes. Runny nose. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible inflammation of the respiratory tract. Risk of lung oedema. Respiratory difficulties.

After skin contact: Tingling/irritation of the skin. After eye contact: Irritation of the eye tissue. Lacrimation. After ingestion: No effects known.

- 4.2.2 Delayed symptoms
- No effects known.

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

If applicable and availabl<mark>e it will be listed below.</mark>

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

5.3. Advice for firefighters

5.3.1 Instructions:

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

5.3.2 Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.
- 6.1.1 Protective equipment for non-emergency personnel
- See heading 8.2 6.1.2 Protective equipment for emergency responders
 - Gloves. Protective goggles. Head/neck protection. Protective clothing.
 - Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the solid spill. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

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.

Reason for revision: 2;3

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Unauthorized persons are not admitted. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

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

- 7.2.3 Suitable packaging material:
- Aerosol.

- 7.2.4 Non suitable packaging material:
- No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

EU			
Dimethylether		Time-weighted average exposure limit 8 h (Indicative occupational	1000 ppm
		exposure limit value)	
		Time-weighted average exposure limit 8 h (Indicative occupational	1920 mg/m³
		exposure limit value)	
Belgium			
4,4'-Diisocyanate de dipl	hénylméthane (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm
		Time-weighted average exposure limit 8 h	0.052 mg/m ³
Hydrocarbures aliphatiqu C4)	es 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	496 ppm
		exposure limit value) Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m³
		Short time value (Public occupational exposure limit value)	783 ppm
		Short time value (Public occupational exposure limit value)	1500 mg/m ³
France			1 0
4,4'-Diisocyanate de diph	énylméthane	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/m³
		Short time value (VL: Valeur non réglementaire indicative)	0.02 ppm
		Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m³
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
Germany			1
4,4'-Methylendiphenyldiis	socvanat	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 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
Isobutan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m ³
)	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m ³
pMDI (als MDI berechnet			
		Publication date: 2007-08-16	
pMDI (als MDI berechnet or revision: 2;3		Publication date: 2007-08-16	
		Publication date: 2007-08-16 Date of revision: 2018-01-09	

Propan			Time-weighted a	verage exposure limit 8 h (TRO	GS 900)	1000 ppm
				verage exposure limit 8 h (TRC		1800 mg/m ³
UK Dimethyl ether			Time weighted a	verage exposure limit 8 h (Wo	rkalaca ovnocura limit	400 ppm
Dimethyrether			(EH40/2005))	verage exposure innit 8 if (wo		400 ppm
				verage exposure limit 8 h (Wo	rkplace exposure limit	766 mg/m ³
			(EH40/2005))			
				(Workplace exposure limit (EF		500 ppm
				(Workplace exposure limit (EF		958 mg/m ³
Isocyanates, all (as -NC	D) Except me	thyl isocyanate	(EH40/2005))	verage exposure limit 8 h (Wo	rkplace exposure limit	0.02 mg/m³
				(Workplace exposure limit (EF	140/2005))	0.07 mg/m ³
						0107 1118/111
USA (TLV-ACGIH)						
Butane, all isomers				(TLV - Adopted Value)		1000 ppm
Methylene bisphenyl is		וע	l'ime-weighted a	verage exposure limit 8 h (TLV	- Adopted Value)	0.005 ppm
b) National biological li If limit values are applic		lahla thaca will ha li	stad balaw			
1.1.2 Sampling methods	able and avail	lable these will be in	sted below.			
Product name			Test	Number		
Isocyanates			NIOSH	5521		
Isocyanates			NIOSH	5522		
.1.3 Applicable limit value	es when using	the substance or r		provide a second se		
If limit values are applic						
.1.4 DNEL/PNEC values						
DNEL/DMEL - Workers						
reaction mass of tris(2-	chloropropyl)	phosphate and tris	2-chloro-1-methylethyl	phosphate and phosphoric a	cid, bis(2-chloro-1-meth	ylethyl) 2-chlo
ester and phosphoric ad		1-methylethyl bis(2-	<mark>chloro</mark> propyl) ester			
Effect level (DNEL/DN	MEL)	Туре		Value	Remark	
DNEL			ic effects inhalation	5.82 mg/m ³		
		Acute systemic eff		22.4 mg/m ³		
		Long-term systemi		2.08 mg/kg bw/		
DNEL/DMEL - General		Acute systemic eff	ects dermal	8 mg/kg bw/day	'	
Eff			chloropropyl) ester			
Effect level (DNEL/DN	MEL)	Туре		Value	Remark	
Effect level (DNEL/DI DNEL	VIEL)	Long-term systemi	ic effects inhalation	1.46 mg/m ³	Remark	
	viel)	Long-term systemi Acute systemic eff	ic effects inhalation ects inhalation	1.46 mg/m ³ 11.2 mg/m ³		
	MEL)	Long-term systemi Acute systemic eff Long-term systemi	<mark>ic effec</mark> ts inhalation ects inhalation ic effects dermal	1.46 mg/m ³ 11.2 mg/m ³ 1.04 mg/kg bw/	day	
	MEL)	Long-term systemi Acute systemic eff Long-term systemi Acute systemic eff	ic effects inhalation ects inhalation ic effects dermal ects dermal	1.46 mg/m ³ 11.2 mg/m ³ 1.04 mg/kg bw/ 4 mg/kg bw/day	day	
	MEL)	Long-term systemi Acute systemic eff Long-term systemi	ic effects inhalation ects inhalation ic effects dermal ects dermal	1.46 mg/m ³ 11.2 mg/m ³ 1.04 mg/kg bw/	day	
DNEL		Long-term systemi Acute systemic eff Long-term systemi Acute systemic eff Long-term systemi	c effects inhalation ects inhalation c effects dermal ects dermal ic effects oral	1.46 mg/m ³ 11.2 mg/m ³ 1.04 mg/kg bw/ 4 mg/kg bw/day 0.52 mg/kg bw/	day , day	ylethyl) 2-chlo
DNEL	chloropropyl)	Long-term systemi Acute systemic eff Long-term systemi Acute systemic eff Long-term systemi phosphate and trisi	c effects inhalation ects inhalation ic effects dermal ects dermal ic effects oral (2-chloro-1-methylethyl)	1.46 mg/m ³ 11.2 mg/m ³ 1.04 mg/kg bw/ 4 mg/kg bw/day	day , day	ylethyl) 2-chlo
DNEL PNEC reaction mass of tris(2-	chloropropyl)	Long-term systemi Acute systemic eff Long-term systemi Acute systemic eff Long-term systemi phosphate and trist L-methylethyl bis(2-	c effects inhalation ects inhalation ic effects dermal ects dermal ic effects oral (2-chloro-1-methylethyl)	1.46 mg/m³ 11.2 mg/m³ 1.04 mg/kg bw/ 4 mg/kg bw/day 0.52 mg/kg bw/ 1 phosphate and phosphoric ad	day , day	ylethyl) 2-chlo
DNEL <u>PNEC</u> reaction mass of tris(2 ester and phosphoric ac <u>Compartments</u> Fresh water	chl <mark>oropropyl)</mark> cid, 2-chloro-1	Long-term systemi Acute systemic eff Long-term systemi Acute systemic eff Long-term systemi phosphate and trisi 1-methylethyl bis(2- Va 0.	c effects inhalation ects inhalation ic effects dermal ects dermal ic effects oral (2-chloro-1-methylethyl) chloropropyl) ester alue 64 mg/l	1.46 mg/m³ 11.2 mg/m³ 1.04 mg/kg bw/ 4 mg/kg bw/day 0.52 mg/kg bw/ 1 phosphate and phosphoric ad	day , day cid, bis(2-chloro-1-meth	ylethyl) 2-chlo
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DNEL PNEC reaction mass of tris(2- ester and phosphoric ar Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 1.1.5 Control banding	chloropropyl) cid, 2-chloro-1 leases) t nt	Long-term systemi Acute systemic eff Long-term systemi Acute systemic eff Long-term systemi phosphate and trisi 1-methylethyl bis(2- Va 0.1 0.1 0.1 1.1 1.1 1.1 1.1	c effects inhalation ects inhalation ic effects dermal ects dermal ic effects oral (2-chloro-1-methylethyl) chloropropyl) ester alue 64 mg/l 51 mg/l 064 mg/l 84 mg/l 85 mg/l 85 mg/l 86 mg/l 86 mg/l 86 mg/l 86 mg/l 86 mg/l 87 mg/l 86 mg/l 87 mg/l 86 mg/l 86 mg/l 86 mg/l 86 mg/l 86 mg/l 87 mg/l 87 mg/l 86 mg/l 87 mg/l 87 mg/l 86 mg/l 86 mg/l 87 mg/l 86 mg/l 86 mg/l 87 mg/l 86 mg/l 87 mg/l	1.46 mg/m³ 11.2 mg/m³ 1.04 mg/kg bw/ 4 mg/kg bw/day 0.52 mg/kg bw/ 1 phosphate and phosphoric ad	day , day cid, bis(2-chloro-1-meth	ylethyl) 2-chlo
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Materials	Breakthrough time	Thickness	
LDPE (Low Density Poly Ethylene	> 10 minutes	0.025 mm	
) Eye protection:		0.025 1111	
Protective goggles.			
) Skin protection:			
Head/neck protection. Protective	clothing.		
.2.3 Environmental exposure contr	•		
See headings 6.2, 6.3 and 13			
ON 9: Physical and c	hemical properties		
Information on basic physic	al and chemical properties		
Physical form	Aerosol		
Odour	Characteristic odour		
Odour threshold	No data available		
Colour	Variable in colour, depending on th	e composition	
Particle size	No data available		
Explosion limits	No data available		
Flammability	Extremely flammable aerosol.		
Log Kow	Not applicable (mixture)		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		
Melting point	No data available		
Boiling point	No data available		
Evaporation rate	No data available		
Relative vapour density	> 1		
Vapour pressure	No data available		
Solubility	Water ; insoluble		
	Organic solvents ; soluble		
Relative density	0.9 ; 20 °C		
Decomposition tempera <mark>ture</mark>	No data available		
Auto-ignition temperatu <mark>re</mark>	No data available		
Flash point	No data available		
Explosive properties	No chemical group associated with		
Oxidising properties	No chemical group associated with	oxidising properties	
рН	No data available		
Other information			
Absolute density	963 kg/m³ ; 20 °C		

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. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

(strong) acids, (strong) ba<mark>ses, amines.</mark>

10.6. Hazardous decomposition products

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

Reason for revision: 2;3

Publication date: 2007-08-16 Date of revision: 2018-01-09

CTION 11: Tox	icologica	linformatio	n				
11.1. Information (11.1.1 Test results	on toxicolog	Ical effects					
cute toxicity							
•	line From						
Fire & Acoustic B1 Expand No (test)data on the m		2					
Classification is based	on the r <mark>elevant</mark>	ingredients					
polymethylene polyph			Value	Europuro timo	Chaosian	Malua	Remark
Route of exposure	Parameter	wiethod	value	Exposure time	Species	Value determination	Kemark
Oral	LD50		> 10000 mg/kg		Rat	Literature study	
Dermal	LD50		> 5000 mg/kg		Rabbit	Literature study	
Inhalation (vapour Inhalation	s) LD50		10 mg/l - 20 mg/l category 4	4 h	Rat	Literature study Literature study	
reaction mass of tris(2	-chlorop <mark>ropyl)</mark>	I phosphate and tris(2-		yl) phosphate and	phosphoric acid, bis(2-		l) 2-chloropropyl
ester and phosphoric a	acid, 2-c <mark>hloro-1</mark> -	-methylethyl bis(2-ch	lloropropyl) ester				
Route of exposure	e Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	EU Method B.1 tris	<mark>632 mg/</mark> kg bw		Rat (female)	Experimental value	
Demos	1050	0560 402	2000 m = // += h+++	24 h	Det (mele (femele)	Fun anima anta lum lum	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aeroso	l) LC50	OECD 403	> 7 mg/l	4 h	Rat (male/female)	Experimental value	
Conclusion							
Fire & Acoustic B1 Expand	ling Foam						
No (test)data on the m Classification is based	on the r <mark>elevant</mark>	ingredients					
. ,	on the relevant envl isocyanate	ingredients	Exposure time	Time point	Species	Value determination	Remark
Classification is based polymethylene polyph	on the r <mark>elevant</mark> <u>envl isocyanate</u> Result Irritatin <mark>g;</mark>	ingredients	Exposure time	Time point	Species		Remark
Classification is based polymethylene polyph Route of exposure	on the relevant envl isocyanate Result Irritating; category 2 Irritating;	ingredients	Exposure time	Time point	Species	determination	Remark
Classification is based <u>polymethylene polyph</u> Route of exposure Eye Skin	on the relevant envl isocyanate Result Irritating; category 2 Irritating; category 2	ingredients	Exposure time	Time point	Species	determination Literature study Literature study	Remark
Classification is based polymethylene polyph Route of exposure Eye Skin	on the relevant envl isocyanate Result Irritating; category 2 Irritating;	ingredients	Exposure time	Time point	Species	determination Literature study	Remark
Classification is based <u>polymethylene polyph</u> Route of exposure Eye Skin Inhalation <u>reaction mass of tris(2</u>	on the relevant enyl isocyanate Result Irritating; category 2 Irritating; category 2 Irritating; STOT SE cat.3 -chloropropyl) j	Method	chloro-1-methyleth			determination Literature study Literature study Literature study Literature study	
Classification is based polymethylene polyph Route of exposure Eye Skin Inhalation reaction mass of tris(2 ester and phosphoric a	on the relevant envl isocyanate Result Irritating; category 2 Irritating; category 2 Irritating; STOT SE cat.3 -chloropropyl) j acid, 2-chloro-1	ingredients Method phosphate and tris(2methylethyl bis(2-ch	chloro-1-methyleth	yl) phosphate and	phosphoric acid, bis(2-	determination Literature study Literature study Literature study chloro-1-methylethy	I) 2-chloropropyl
Classification is based polymethylene polyph Route of exposure Eye Skin Inhalation reaction mass of tris(2 ester and phosphoric a Route of exposure	on the relevant enyl isocyanate Result Irritating; category 2 Irritating; category 2 Irritating; STOT SE cat.3 -chloropropyl) j acid, 2-chloro-1. Result	Method	chloro-1-methyleth loropropyl) ester Exposure time	yl) phosphate and Time point	phosphoric acid, bis(2-	determination Literature study Literature study Literature study Literature study chloro-1-methylethy Value determination	I) 2-chloropropyl Remark
Classification is based polymethylene polyph Route of exposure Eye Skin Inhalation reaction mass of tris(2 ester and phosphoric a Route of exposure	on the relevant envl isocyanate Result Irritating; category 2 Irritating; category 2 Irritating; STOT SE cat.3 -chloropropyl) j acid, 2-chloro-1	ingredients Method phosphate and tris(2methylethyl bis(2-ch	chloro-1-methyleth	yl) phosphate and	phosphoric acid, bis(2-	determination Literature study Literature study Literature study chloro-1-methylethy Value	I) 2-chloropropyl Remark
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Result Method Exposure time Test substrate Organ Value determination Negative OECD 474 Mouse (male/female) Bone marrow Experimental value Conclusion Not classified for mutagenic or genotoxic toxicity Experimental value Second and the mixture available Fire & Acoustic B1 Expanding Foam No (test) data on the mixture available Publication date: 2007-08-16 Date of revision: 2018-01-09							, , pricepriate and price	2,5.101.10 ueld, 015(2)	inclusion a methylethy	., <u>_ ccropropyr</u>
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Not classified for mutagenic or genotoxic toxicity Carcinogenicity Fire & Acoustic B1 Expanding Foam No (test)data on the mixture available Reason for revision: 2;3 Publication date: 2007-08-16 Date of revision: 2018-01-09		Negative		OECD 474			Mouse (mal	le/female) Bor	ne marrow Ex	perimental value
Carcinogenicity Fire & Acoustic B1 Expanding Foam No (test)data on the mixture available Reason for revision: 2;3 Publication date: 2007-08-16 Date of revision: 2018-01-09	Con	clusion		•					•	
Fire & Acoustic B1 Expanding Foam No (test)data on the mixture available Reason for revision: 2;3 Publication date: 2007-08-16 Date of revision: 2018-01-09	No	ot classified for muta	agenic o <mark>r geno</mark>	otoxic toxicity						
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No (test)data on the mixture available Publication date: 2007-08-16 Reason for revision: 2;3 Publication date: 2007-08-16 Date of revision: 2018-01-09	Eiro O	Acoustic B1 Sugar	ling Foom							
Reason for revision: 2;3 Publication date: 2007-08-16 Date of revision: 2018-01-09				le						
Date of revision: 2018-01-09	INC		INTEL AVAIIAL							
Date of revision: 2018-01-09										
	Reason	tor revision: 2;3								
Revision number: 0403 Product number: 45261 8 / 15								Date of revision: 20	18-01-09	
Revision number: 0403Product number: 452618 / 15										
	Revisio	n number: 0403					P	Product number: 45	5261	8/15

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Cla	ssification is b	ased on the re	elevant ingred	ients							
pol	ymethylene p	olyphenyl isod	zvanate								
	Route of exposure	Parameter	Method	Value		Exposure	e time Sp	ecies E	ffect C	Organ	Value determination
	Unknown			category	2						Literature study
rea	ction mass of	tris(2-chlorop	ropyl) phosph	ate and tris(2-c	hloro-1-r	nethyleth	yl) phosphate	and phosphoric a	cid, bis(2-chloro-1	-methylethyl)	2-chloropropyl
est	er and phosph	noric acid, 2-ch	nloro-1-methy	lethyl bis(2-chlo	oropropy	l) ester					
	Route of exposure	Parameter	Method	Value		Exposure	e time Sp	ecies E	ffect C	Organ	Value determination
	Inhalation										Data waiving
	Dermal										Data waiving
	Oral										Data waiving
Conc	lusion						-				<u> </u>
Sus	pected of cau	sing cancer.									
Reprodu	ictive toxicity										
Fire 0	A an until D1 F										
	Acoustic B1 Ex (test)data on										
	gement is bas			ata							
	•		•		hlana 1	اللام ارتباطه			sid his/2 shlars 1	الربطة المعامين	2 ablanan and
				lethyl bis(2-chlo			ivi) prosprate	and phosphoric a	cid, bis(2-chloro-1	-metnyletnyl)	<u>z-chioropropyi</u>
	ei anu phospi	$10110 a_10, 2^{-}0$			JUDUUDV						
<u></u>				1	1		Evnosuro timo	Spocios	Effoct	Organ	Value
<u></u>			arameter	Method	Value		Exposure time	Species	Effect	Organ	Value determination
<u></u>		Pa		1	Value		Exposure time			Organ	Value determination Experimental
	Development	Pa	arameter	Method	1	kg	Exposure time	Species Rat (female)	Effect Embryotoxicity	Organ	determination
		Pa tal toxicity LC	arameter	Method	Value 99 mg/	kg / kg	Exposure time			Organ Female reproductive organ	determination Experimental
	Development Effects on fer	Pa tal toxicity LC	arameter DAEL	Method OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
Conc	Development Effects on fer Iusion	tal toxicity LC tility LC	DAEL DAEL	Method OECD 416 OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
Conc	Development Effects on fer	tal toxicity LC tility LC	DAEL DAEL	Method OECD 416 OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
<u>Conc</u> No	Development Effects on fer Iusion	tal toxicity LC tility LC	DAEL DAEL	Method OECD 416 OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
<u>Conc</u> No Toxicity	Development Effects on fer Iusion t classified for other effects	Patal toxicity LC tility LC reprotoxic or	DAEL DAEL DAEL development	Method OECD 416 OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
<u>Conc</u> No Toxicity <u>Fire &</u>	Development Effects on fer Iusion t classified for other effects Acoustic B1 E	tal toxicity LC tility LC reprotoxic or xpanding Foar	arameter DAEL DAEL development:	Method OECD 416 OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
<u>Conc</u> No Toxicity <u>Fire &</u>	Development Effects on fer Iusion t classified for other effects	tal toxicity LC tility LC reprotoxic or xpanding Foar	arameter DAEL DAEL development:	Method OECD 416 OECD 416	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
Conc No Toxicity <u>Fire &</u> No	Development Effects on fer Iusion t classified for other effects Acoustic B1 E	tal toxicity LC tility LC reprotoxic or <u>xpanding Foar</u> the mixture a	arameter DAEL DAEL development: <u>n</u> vailable	Method OECD 416 OECD 416 al toxicity	Value 99 mg/ bw/day 99 mg/	kg / kg	Exposure time	Rat (female)	Embryotoxicity	Female reproductive	determination Experimental value Experimental
Conc No Toxicity <u>Fire &</u> No Chronic <u>Fire &</u>	Development Effects on fer Iusion t classified for other effects Acoustic B1 Ex (test)data on effects from s Acoustic B1 Ex	tal toxicity LC tillity LC reprotoxic or <u>xpanding Foar</u> the mixture a hort and long <u>xpanding Foar</u>	arameter DAEL DAEL developmenta developmenta developmenta n	Method OECD 416 OECD 416 al toxicity	Value 99 mg/ bw/day 99 mg/ bw/day	kg / / /		Rat (female)	Embryotoxicity Weight changes	Female reproductive organ	determination Experimental value Experimental value
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Conc No Toxicity <u>Fire &</u> No Chronic <u>Fire &</u> ON	Development Effects on fer <u>Iusion</u> t classified for other effects Acoustic B1 Ex (test)data on effects from s Acoustic B1 Ex CONTINUOUS	tal toxicity LC tility LC reprotoxic or <u>expanding Foar</u> the mixture a chort and long <u>expanding Foar</u> S/REPEATED E	arameter DAEL DAEL developmenta vailable -term exposu <u>n</u> XPOSURE/CO	Method OECD 416 OECD 416 al toxicity	Value 99 mg/ bw/day 99 mg/ bw/day	kg / / /		Rat (female)	Embryotoxicity Weight changes	Female reproductive organ	determination Experimental value Experimental value
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Conc No Toxicity <u>Fire &</u> No Chronic <u>Fire &</u> ON infl	Development Effects on fer <u>Iusion</u> t classified for other effects Acoustic B1 Ex (test)data on effects from s Acoustic B1 Ex CONTINUOUS	tal toxicity LC tility LC reprotoxic or the mixture ar the mixture ar thort and long synanding Foar S/REPEATED E the respirator	arameter DAEL DAEL developmenta vailable -term exposu <u>n</u> XPOSURE/CO y tract. Respire	Method OECD 416 OECD 416 al toxicity re NTACT: Feeling atory difficulties	Value 99 mg/ bw/day 99 mg/ bw/day	kg / / /		Rat (female)	Embryotoxicity Weight changes	Female reproductive organ	determination Experimental value Experimental value

Fire & Acoustic B1 Expanding Foam

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No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinatio
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
for revision: 2;3						n date: 2007- vision: 2018-0		
on number: 0403					Product n	umber: 45261		9/15

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determina
Acute toxicity fishes	LC50	Other	56.2 mg/l	96 h	Brachydanio rerio	Static system	n Fresh water	Experimental val GLP
Acute toxicity crustacea	LC50		131 mg/l	48 h		Static syster	n Fresh water	Experimental val
Toxicity algae and other aqua plants	itic ErC50	OECD 201	82 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static syster	n Fresh water	Experimental val
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 202	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental val
Toxicity aquatic micro- organisms	EC50	ISO 8192	784 mg/l	3 h	Activated sludge	Static system	n Fresh water	Experimental va GLP
Not classified as dangerous for 2.2. Persistence and deg polymethylene polyphenyl isoc Biodegradation water	radability		the criteria o					
Method		Value		Dui	ration		alue determina	
OECD 302C: Inherent Biode	gradability:	< 60 %				E	xperimental val	ue
Modified MITI Test (II)	(onul) sharehout	o and tric(2 -1	loro 1 math	lothul) share l	ato and shoether	cid bio/2 at t	oro 1 mothed	hul) 2 chloreser
eaction mass of tris(2-chloropression of the section mass of tris(2-chloropression of the section of the sectio					ate and phosphoric a	ciu, bis(2-chl	uru-1-methylet	iiyi) 2-chioroprop
Biodegradation water		,,						
Method		Value		Dui	ration	V	alue determina	ition
OECD 301E: Modified OECD		14 %; GLP		28	day(s)	E	xperimental val	ue
Phototransformation air (DT	50 air)	h						
Method		Value			nc. OH-radicals		alue determina	ition
AOPWIN v1.92		8.6 h		500)000 /cm³	С	alculated value	
Biodegradation soil Method		Value			ration	h,	alue determina	tion
wethou		Value		Dui	ration		alue determina ata waiving	nion
Half-life water (t1/2 water)							ata waiviilg	
Method		Value			mary gradation/mineralisat		alue determina	ition
EU Method C.7		> 1 year(s)			mary degradation		xperimental val	ue
DINCLUSION Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam	tential				·		xperimental val	ue
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow	tential		Value		nary degradation			
nclusion contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow //ethod	tential <u>1</u> Remark	t(s)	Value		·		xperimental val Value determi	
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method Nolymethylene polyphenyl isoc	tential <u>1</u> Remark Not applicable (t(s)	Value		nary degradation			
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method Iolymethylene polyphenyl isoc BCF fishes	tential <u>1</u> Remark Not applicable (<u>vanate</u>	t(s) mixture)		Prir	Temperature		Value determi	nation
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method folymethylene polyphenyl isoc BCF fishes Parameter Method	tential <u>1</u> Remark Not applicable (<u>yanate</u>	t(s) mixture)	Value	Prir	Temperature		Value determin	nation
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method I I I I I I I I I I I I I I I I I I I	tential <u>1</u> Remark Not applicable (<u>vanate</u>	t(s) mixture)		Prir	Temperature		Value determin	nation
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method Method bolymethylene polyphenyl isoc BCF fishes Parameter Method	tential <u>1</u> Remark Not applicable (<u>vanate</u>	t(s) mixture)		Prir	Temperature		Value determin	nation etermination re study
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method bolymethylene polyphenyl isoc BCF fishes Parameter BCF Log Kow Method	tential T Remark Not applicable (vanate d Remark Remark No data ava	t(s) mixture) ue	Duration	Prir Prir	Temperature Deccies Sces Temperature	E	Value determin Value d Literatu Value dete	nation etermination re study rmination
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method bolymethylene polyphenyl isoc BCF fishes Parameter BCF Log Kow Method eaction mass of tris(2-chloropression)	tential T Remark Not applicable (vanate d Remark Remark No data ava ropyl) phosphat	t(s) mixture) ue ilable e and tris(2-cf	Duration Value	Prir Prir SI Pi lethyl) phosph	Temperature Deccies Sces Temperature	E	Value determin Value d Literatu Value dete	nation etermination re study rmination
Acoustic B1 Expanding Foam g Kow Method BCF fishes Parameter BCF Log Kow Method	tential T Remark Not applicable (vanate d Remark Remark No data ava ropyl) phosphat	t(s) mixture) ue ilable e and tris(2-cf	Duration Value	Prir Prir SI Pi lethyl) phosph	Temperature Deccies Sces Temperature	E	Value determin Value d Literatu Value dete	nation etermination re study rmination
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method bolymethylene polyphenyl isoc BCF fishes Parameter Method BCF Log Kow Method eaction mass of tris(2-chloroprister and phosphoric acid, 2-ch BCF fishes	tential T Remark Not applicable (yanate d Remark No data ava ropyl) phosphat loro-1-methyle	t(s) mixture) ue ilable e and tris(2-chlo	Duration Value Noro-1-methy ropropyl) este	Prir Prir Iethyl) phosph	Temperature	E	Value determin Value d Literatu Value dete oro-1-methylet	nation etermination re study rmination hyl) 2-chloropropy
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Acoustic B1 Expanding Foam g Kow Method BCF fishes Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method Method BCF BCF Log Kow Method Method BCF BCF Log Kow Method Method BCF BCF BCF BCF fishes BCF fishes BCF fishes BCF fishes BCF fishes BCF fishes BCF fishes BCF fishes Der fishes DECF BCF fishes BCF BCF BCF BCF BCF BCF BCF BCF BCF BCF	tential T Remark Not applicable (vanate d Remark No data ava ropyl) phosphat loro-1-methyle d Val Val	t(s) mixture) ue ilable e and tris(2-chlo	Duration Value Noro-1-methy ropropyl) este	Prir Prir Iethyl) phosph	Temperature	E	Value determin Value d Literatu Value dete oro-1-methylet Value d	nation etermination re study rmination hyl) 2-chloropropy
Acoustic B1 Expanding Foam g Kow Method BCF fishes Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method Metho	tential T Remark Not applicable (vanate d Remark No data ava ropyl) phosphat loro-1-methyle d Val Val	t(s) mixture) ue ilable <u>e and tris(2-ch</u> thyl bis(2-chlo ue	Duration Value Value loro-1-methy ropropy() ester	Prir Prir Iethyl) phosph	Temperature	E	Value determin Value d Literatu Value dete oro-1-methylet Value d	nation etermination re study rmination hyl) 2-chloropropy etermination iental value
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Acoustic B1 Expanding Foam g Kow Method BCF fishes Contains non readily biodegrad a Acoustic B1 Expanding Foam g Kow Method BCF Log Kow Method BCF Log Kow Method BCF Expandent Stris(2-chloropresser and phosphoric acid, 2-chloropresser acid, 2-	tential Contract of the second	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue - 14; Fresh	Duration Value Value Noro-1-methy ropropyl) ester Duration 6 week(s)	Prir Prir Iethyl) phosph	Temperature	E	Value determin Value d Literatu Value dete oro-1-methylet Value d Experim Value dete	nation etermination re study rmination hyl) 2-chloropropy etermination iental value
Acoustic B1 Expanding Foam g Kow Method BCF fishes Parameter BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF Log Kow Method BCF BCF Log Kow Method BCF BCF BCF BCF BCF BCF BCF BCF BCF BCF	tential Contract of the second	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue - 14; Fresh	Duration Value Value Noro-1-methy ropropyl) ester Duration 6 week(s)	Prir Prir Iethyl) phosph	Temperature Temperature Decies Sces Temperature Internation Decies Sces Temperature Internation Decies Sprinus carpio Temperature 30 °C	E	Value determin Value d Literatu Value dete oro-1-methylet Value d Experiment	nation etermination re study rmination hyl) 2-chloropropy etermination iental value
nclusion Contains non readily biodegrad 2.3. Bioaccumulative pot & Acoustic B1 Expanding Foam g Kow Method Dolymethylene polyphenyl isoc BCF fishes Parameter Method BCF Log Kow Method eaction mass of tris(2-chloropy ister and phosphoric acid, 2-ch BCF fishes Parameter Method BCF DECF OECD 3 Log Kow Method EU Method A.8 nclusion	tential Contract of the second	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue - 14; Fresh	Duration Value Value Noro-1-methy ropropyl) ester Duration 6 week(s)	Prir Prir Iethyl) phosph	Temperature Temperature Decies Seces Temperature Decies Seces Temperature Decies Syprinus carpio Temperature 30 °C Publication	cid, bis(2-chl	Value determin Value d Literatu Value dete oro-1-methylet Value dete Experiment Experiment	nation etermination re study rmination hyl) 2-chloropropy etermination iental value

12.4. Mobility in soil

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

(lo	g) Koc										
F	Parameter					Method			Value		Value determination
I	og Koc					EU Meth	od C.19	Ĩ	2.76		Experimental value
Ре	rcent distribution										
r	Method Fraction air F			Fraction		Fraction soil	Fraction	water	Value determ	ination	
					sedimen	t i					
٢	Mackay level I	0.01 %		0 %	3.55 %		3.52 %	92.89 %		Read-across	

Conclusion

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

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Fire & Acoustic B1 Expanding 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. Specific treatment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

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		
UN number	1950	
14.2. UN proper shipping na <mark>me</mark>		
Proper shipping name	Aerosols	
14.3. Transport hazard class(es)		
Hazard identification number		
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		
Special provisions	190	
Special provisions	327	
Special provisions	344	
Special provisions	625	
son for revision: 2;3	Publication date: 2007-08-16	
	Date of revision: 2018-01-09	
sion number: 0403	Product number: 45261	11/3

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)
-::(0)0)	ויקעונט. ה אפנהספר זומו ווטג שכופר חוטרל נוומר גע
ail (RID)	
14.1. UN number	4050
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number Class	23
Classification code	5F
14.4. Packing group	pi
Packing group	
Labels	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 for
	liquids. A package shall not weigh more than 30 kg. (gross mass)
and waterways (ADN)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	la sussile
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	h
Class Classification and	2
Classification code	5F
14.4. Packing group	
Packing group	2.1
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	100
Special provisions	190 327
Special provisions	327
Special provisions Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)
	Inderson - Basing Countries and Lines and Lines (Processings)
a (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
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)
n for revision: 2;3	Publication date: 2007-08-16
	Date of revision: 2018-01-09

14.7. Transport in bulk according to Annex II of Marpol and the IBC	ode
Annex II of MARPOL 73/78	Not applicable
Air (ICAO-TI/IATA-DGR)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
Limited quantities: maximum 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	
16.26 % - 23.01 %			
156.58 g/l - 221.55 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 dar substances mixtures and articles

and use of certain dan	igerous	substances, mixtures and artic	163.	
		Designation of the substance, of the substances or of the mixture	e group of	Conditions of restriction
polymethylene polyphenyl isocyanat		Liquid substances or mixtures which		1. Shall not be used in:
reaction mass of tris(2-chloropropyl)		regarded as dangerous in accordance		 ornamental articles intended to produce light or colour effects by means of different
phosphate and tris(2-chloro-1-methyl		Directive 1999/45/EC or are fulfilling		phases, for example in ornamental lamps and ashtrays,
phosphate and phosphoric acid, bis(2-		criteria for any of the following haza		— tricks and jokes,
chloro-1-methylethyl) 2-chloropropyl		or categories set out in Annex I to R	egulation	 games for one or more participants, or any article intended to be used as such, even with
and phosphoric acid, 2-chloro-1-meth		(EC) No 1272/2008:		ornamental aspects,
bis(2-chloropropyl) ester		(a) hazard classes 2.1 to 2.4, 2.6 and	2.7, 2.8	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 c	ategories 1	3. 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 adv	rse	 present an aspiration hazard and are labelled with R65 or H304,
		effects on sexual function and fertili	ty or on	4. Decorative oil lamps for supply to the general public shall not be placed on the market
		development, 3.8 effects other thar	narcotic	unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopte
		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 sha
				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 visible
				legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach
				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 a
				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 Agence
				to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to
				ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304,
				intended for supply to the general public.
				7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter
				fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter,
				provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the
				competent authority in the Member State concerned. Member States shall make those da
				available to the Commission.'
polymethylene polyphenyl isocyanat	te	Methylenediphenyl diisocyanate (M	IDI)	1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures
, , ,, p, p, booquilat		including the following specific isom		concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general
		Methylenediphenyl diisocyanate; 2,		public, unless suppliers shall ensure before the placing on the market that the packaging:
		Methylenediphenyl dilsocyanate; 2,		passion and a suppliers shall ensure before the placing on the market that the packaging.
		wethyleneuphenyl unsocyanate, 2,	-	
son for revision: 2;3				Publication date: 2007-08-16
,-				Date of revision: 2018-01-09
				Date of revision, 2010-01-03
ision number: 0403				Product number: 45261 13 / 15
131011 110111021.0403				PTOUULL HUITIDEL. 45201 13 / 15

Fire & Acoustic B1 Expanding Foam			
		Methylenediphenyl diisocyanate	(a) contains protective gloves which comply with the requirements of Council Directive
		,,	89/686/EEC;
I			(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substance
			and mixtures: "— Persons already sensitised to diisocyanates may develop allergic reactions when usin
			this product.
			 Persons suffering from asthma, eczema or skin problems should avoid contact, includi dermal contact, with this product.
			 — This product should not be used under conditions of poor ventilation unless a protect mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
			 By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.
Natio	nal legislation Belgium		
	<u>re & Acoustic B1 Expanding F</u> No data available	<u>oam</u>	
	nal legislation The Netherlan		
	re & Acoustic B1 Expan <mark>ding F</mark> Waterbezwaarliikheid	<u>oam</u> Z (2)	
L	, , , ,	<u>r</u> (2)	
	nal legislation France re & Acoustic B1 Expanding F	oam	
	No data available	<u>oum</u>	
	olymethylene polyphen <mark>yl iso</mark> g	<u>cyanate</u>	
	Catégorie cancérogène	4,4'-Diisocyanate de diphényln	néthane; C2
Natio	nal legislation Germany		
	re & Acoustic B1 Expan <mark>ding F</mark>		
,	WGK		y based on the components in compliance with Verwaltungsvorschrift wassergefährden (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoff
n	olymethylene polyphenyl isoo	(AwSV) of 18 April 2017	(Annang 4) and verordnung über Anlagen zum Orngang mit wassergeranroenden ston-
	TA-Luft	5.2.5; I	
:	TRGS900 - Risiko der	4,4'-Methylendiphenyldiisocya	nat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes
	Fruchtschädigung		rtes nicht befürchtet zu werden
		pMDI (als MDI berechnet); Y; R biologischen Grenzwertes nich	isiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des t befürchtet zu werden
	Sensibilisierende Stoffe		nat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden
		Zielorganen Allergien auslösen	
	TRCSOOF Krobsorzougand		Atemwegssensibilisierende Stoffe DI) (in Form atembarer Aerosole, A-Fraktion); 2
	TRGS905 - Krebserzeug <mark>end</mark> TRGS905 - Erbgutveränderno		DI) (in Form atembarer Aerosole, A-Fraktion); -
	TRGS905 - Fruchtbarkeitsgefährdend		DI) (in Form atembarer Aerosole, A-Fraktion); -
	TRGS905 - Fruchtschäd <mark>igend</mark>		DI) (in Form atembarer Aerosole, A-Fraktion); -
	Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocya	
re	paction mass of tris(2-chloron	pMDI (als MDI berechnet); H; H ropyl) phosphate and tris(2-chlor	autresorptiv o-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chlorop
		nloro-1-methylethyl bis(2-chlorop	
Ē	TA-Luft	5.2.5	
Natio	nal legislation United Kingdo	<u>om</u>	
	re & Acoustic B1 Expanding F	oam	
	No data available		
-	olymethylene polyphenyl isoo Skin Sensitisation	<u>socyanate</u> Isocyanates, all (as -NCO) Exce	nt methyl isocyanate: Sen
÷	Respiratory sensitisation	Isocyanates, all (as -NCO) Exce	
L	r relevant data		
_	re & Acoustic B1 Expanding F	<u>oam</u>	
I	No data available		
F	olymethylene polyphenyl isod		001/00240
L	IARC - classification	3; Polymethylene polyphenyl is	
	hemical safety ass <mark>essn</mark>		
NC	o chemical safety assessment	t has been conducted for the mix	ture.
			Publication date: 2007-08-16
son for r	evision: 2·3		
son for re	evision: 2;3		
son for re	evision: 2;3		Date of revision: 2018-01-09

			3	
CTION 16: Othe	r information			
Full text of any H-state	ments referred to under heading 3:			
H220 Extremely fla	ammable gas.			
H222 Extremely fla	ammable aerosol.			
	container: May burst if heated.			
	under pressure; may explode if heated.			
H302 Harmful if sv				
H315 Causes skin i				
-	n allergic skin reaction.			
H319 Causes serio H332 Harmful if in				
	naled. Ilergy or asthma symptoms or breathing dif	ficultion if inholod		
H335 May cause a		ilcuities il illiaieu.		
H351 Suspected of				
•	amage to organs through prolonged or repo	eated exposure if inha	aled.	
,				
(*)	INTERNAL CLASSIFICATION BY BIG			
CLP (EU-GHS)	Classification, labelling and packaging (C	Slobally 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 ra	te		
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	n and Development		
PBT	Persistent, Bioaccumulative & Toxic			
PNEC	Predicted No Effect Concentration			
STP	Sludge Treatment Process			
vPvB	very Persistent & very Bioaccumulative			
Specific concentration	limits CLP			
polymethylene poly		C≥5%	Eve Irrit 2:H319	analogous to Annex

polymethylene polyphen <mark>yl isocyanate</mark>	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

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

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