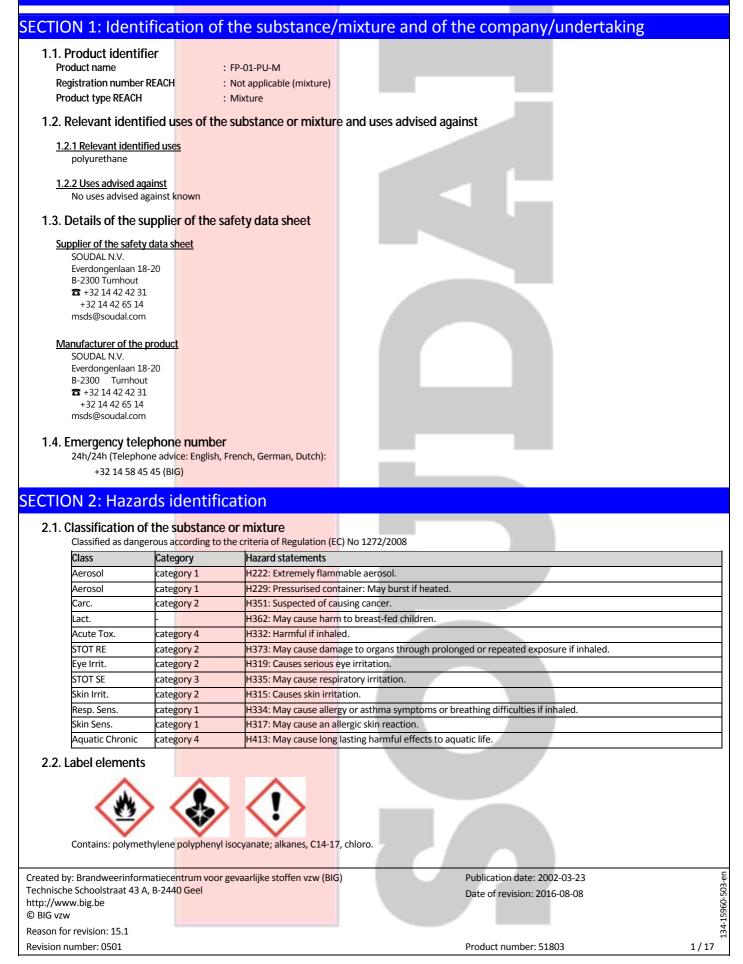


SAFETY DATA SHEET

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



Signal word	Danger
H-statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
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	n <mark>onal de la constance de</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.
	 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 flo<mark>or level: ignition hazard</mark>

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

Reason for revision: 15.1

Publication date: 2002-03-23 Date of revision: 2016-08-08

Revision number: 0501

Product number: 51803

		FP-	01-	PU-	M			
reaction mass of tris(2-chloropro tris(2-chloro-1-methylethyl) pho phosphoric acid, bis(2-chloro-1-r chloropropyl ester and phospho methylethyl bis(2-chloropropyl) 01-2119486772-26	sphate and nethylethyl) 2- ric acid, 2-chloro-1-		1%	C<5%	Acute Tox. 4; H30:	2	(1)(10)	Reaction product
(1,3-butadiene, conc<0.1%)								
 (1) For H-statements in full: see H (2) Substance with a Community (8) Specific concentration limits, (10) Subject to restrictions of An 	workplace exposure li see heading 16 nex XVII of Regulation (06					
SECTION 4: First aid n								
4.1. Description of first ai General: GENERAL. Check the vital		s: maintain adequ	uate airw	ay and res	piration. Respirato	ory arrest: arti	ficial respiration o	r oxygen. Cardiac arrest:
perform resuscitation. Vio asphyxia/aspiration pneu calm, avoid physical strain After inhalation:	monia. Prevent cooling	by covering the	victim (n	o warming				
Remove the victim into fr After skin contact:	esh air. Respiratory pro	blems: consult a	doctor/r	nedical se	vice.			
Wash immediately with lo After eye contact:	ots of water. Take victi	n to a doctor if in	ritation p	ersists.				
Rinse immediately with p After ingestion: Rinse mouth with water.			-					vice if you feel unwell.
4.2. Most important symparate 4.2.1 Acute symptoms		-						
After inhalation: Dry/sore throat. Coughin LATER: Possible inflamma After skin contact: Tingling/irritation of the s	ition of the respiratory					s. Runny nose	. FOLLOWING SYM	IPTOMS MAY APPEAR
After eye contact: Irritation of the eye tissue After ingestion:								
Not applicable. 4.2.2 Delayed symptoms No effects known.								
4.3. Indication of any imn If applicable and available		ttention and s	special	treatme	ent needed			
SECTION 5: Firefightir	ng measures							
5.1. Extinguishing media 5.1.1 Suitable extinguishing u Quantities of water. Polyo 5.1.2 Unsuitable extinguishi No unsuitable extinguishi	valent foam. BC powde ng media:	r. Carbon dioxide						
5.2. Special hazards arisin On burning: release of to: burst if heated. May poly	ng from the substa	vapours (nitrous	vapours					
5.3. Advice for firefighter 5.3.1 Instructions:				1		() (and the level of
If exposed to fire cool the exposed to heat. After co 5.3.2 Special protective equi Gloves. Protective goggle	oling: persistant risk of pment for fire-fighters	physical explosio	n. Dilute	toxic gase	s with water spray	v. Take accoun	t of toxic/corrosiv	
Reason for revision: 15.1						ition date: 200 f revision: 201		
Revision number: 0501					Produc	t number: 518	803	3/17

SECTION	6: Accidental	re	lease	measures
	or / tooractical		Case	1116454165

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.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

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

7.2.2 Keep away from:

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

7.2.3 Suitable packaging material:

Aerosol

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

EU			
Dimethylether		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m³
Belgium			_
Hydrocarbures aliphatiqu C4)	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/m³
The Netherlands			
Dimethylether		Time-weighted average exposure limit 8 h (Public occupational exposur limit value)	re 496 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposur limit value)	re 950 mg/m³
son for revision: 15.1		Publication date: 2002-03-23	
		Date of revision: 2016-08-08	
ision number: 0501		Product number: 51803	4/1

Short time value (Public occupational exposure lin Short time value (Public occupational exposure lin Short time value (Public occupational exposure lin Time-weighted average exposure limit 8 h (VRI: Vi indicative) Time-weighted average exposure limit 8 h (VRI: Vi indicative) (Chlorierte Paraffine C14-17) Time-weighted average exposure limit 8 h (TRGS 5 Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 10 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 10 h (Workg (EH40/2005)) Short time value (TLV - Adopted Value) Limit values Liucable and available these will be listed below. NIOSH 5521 NIOSH 5521 NIOSH 5522 NIOSH 5522 NIOSH 5522 NIOSH 5522 NIOSH 5522 NIOSH 5522 NIOSH	mit value) (aleur réglementaire (aleur réglementaire (aleur réglementaire 900) 900 900	0.3 ppm 6 mg/m³ 1000 ppm 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (VRI: Vaindicative) Time-weighted average exposure limit 8 h (VRI: Vaindicative) (Chlorierte Paraffine C14-17) Time-weighted average exposure limit 8 h (TRGS 1) Time-weighted average exposure limit 8 h (TRGS 2) Time-weighted average exposure limit 8 h (Workg (EH40/2005))) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 1 (EH40	/aleur réglementaire /aleur réglementaire 900) 900) 900) 900) 900) 900) 900) 900	re 1000 ppm re 1920 mg/ 0.3 ppm 6 mg/m ³ 1000 ppm 1900 mg/ 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/m 500 ppm 958 mg/m
indicative) Time-weighted average exposure limit 8 h (VRI: Vaindicative) (Chlorierte Paraffine C14-17) Time-weighted average exposure limit 8 h (TRGS 5) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 6 H40 Short time value (TLV - Adopted Value) Limit values likable and available these will be listed below. NIOSH \$521 NIOSH	/aleur réglementaire 900) 900) 900) 900) 900) 900) 900) 900	0.3 ppm 6 mg/m³ 1000 ppm 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm 500 ppm 958 mg/m
indicative) Time-weighted average exposure limit 8 h (VRI: Vaindicative) (Chlorierte Paraffine C14-17) Time-weighted average exposure limit 8 h (TRGS 5) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 6 H40 Short time value (TLV - Adopted Value) Limit values likable and available these will be listed below. NIOSH \$521 NIOSH	/aleur réglementaire 900) 900) 900) 900) 900) 900) 900) 900	0.3 ppm 6 mg/m³ 1000 ppm 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm 500 ppm 958 mg/m
indicative) (Chlorierte Paraffine C14-17) Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Ime-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (TRGS 0) Ime-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Ime-weighted average exposure limit 8 h (Workp (EH40/2005))) Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Ime-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Imit values Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Isort time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit (EH40 Imit values Short time value (TLV - Adopted Value) Ilimit values licable and available these	900) 900) 900) 900) 900) 900) 900) 900)	0.3 ppm 6 mg/m ³ 1000 ppm 1900 mg/ 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/n 500 ppm 958 mg/n
Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 6 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 6 h (Workp (EH40/2005))) Short time value (TLV - Adopted Value) Illimit values licable and available these will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substan	900) 900) 900) 900) 900) 900) 900) 900)	6 mg/m ³ 1000 ppm 1900 mg/ 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/m 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (TRGS 0) Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Time-weighted average exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 6 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 6 h (Workp (EH40/2005))) Short time value (TLV - Adopted Value) Illimit values licable and available these will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substan	900) 900) 900) 900) 900) 900) 900) 900)	6 mg/m ³ 1000 ppm 1900 mg/ 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/m 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (TRGS 6 Time-weighted average exposure limit 8 h (Workp 6 EH40/2005)) Time-weighted average exposure limit 8 h (Workp 6 EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp 6 EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp 6 EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp 6 Short time value (Workplace exposure limit 8 h (Workp 6 Short time value (TLV - Adopted Value) Ilimit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522	900) 900) 900) 900) 900) 900) 900) 900)	1000 ppm 1900 mg/ 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/n 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (TLV - Adopted Value) Illimit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522	900) 900) 900) 900) 900) 900) 900) 900)	1900 mg/ 1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/n 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (Workplace exposure limit 8 h (Workpl(EH40/2005))) Time-weighted average exposure limit 8 h (Workpl(EH40/2005))) Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit 8 h (Workpl(EH40/2005))) Short time value (Workplace exposure limit 8 h (Workpl(EH40/2005))) Short time value (Workplace exposure limit 8 h (Workpl(EH40/2005))) Short time value (Workplace exposure limit 8 h (Workplexe exposure limit 10 h (900) 900) 900) 900) 900) place exposure limi place exposure limi 0/2005)) 0/2005)) place exposure limi	1000 ppm 2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/n 500 ppm 958 mg/n
Time-weighted average exposure limit 8 h (TRGS 9 nnet) Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit 1000000000000000000000000000000000000	900) 900) 900) 900) place exposure limi place exposure limi 0/2005)) 0/2005)) place exposure limi	2400 mg/ 0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/n 500 ppm 958 mg/n
hnet) Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 10 Short time value (Workplace exposure limit 10 NIOSH 5521 NIOSH 5522 Iues when using the substance or mixture as intended	900) 900) 900) place exposure limi place exposure limi 0/2005)) 0/2005)) place exposure limi	0.05 mg/r 1000 ppm 1800 mg/ it 400 ppm it 766 mg/n 500 ppm 958 mg/n
Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 8 h (Workp (EH40/2005))) Short time value (Workplace exposure limit 6 H40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 Ilimit values Ilicable and available these will be listed below. Iable it will be listed below. NIOSH 5521 NIOSH 5522	900) 900) place exposure limi place exposure limi 0/2005)) 0/2005)) place exposure limi	1000 ppm 1800 mg/ it 400 ppm it 766 mg/m 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (TRGS 9 Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 ICO) Short time value (Workplace exposure limit (EH40 Inimit values Short time value (TLV - Adopted Value) Ilimit values Short time value (TLV - Adopted Value) Ilimit values NIOSH 5521 NIOSH 5522 Iues when using the substance or mixture as intended State additional ad	900) place exposure limi place exposure limi 0/2005)) 0/2005)) place exposure limi	1800 mg/ it 400 ppm it 766 mg/m 500 ppm 958 mg/m
Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit 8 h (Workg (EH40/2005))) Short time value (Workplace exposure limit (EH40 Short time value (TLV - Adopted Value) Ilimit values licable and available these will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substance or mixture as intended	place exposure limi place exposure limi 0/2005)) 0/2005)) place exposure limi	it 400 ppm it 766 mg/m 500 ppm 958 mg/m
(EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) Short time value (Workplace exposure limit (EH40) Ilimit values Short time value (TLV - Adopted Value) Ilimit values Ilicable and available these will be listed below. Iable it will be listed below. NIOSH 5521 NIOSH 5522 Iues when using the substance or mixture as intended Stort expose	place exposure limi 0/2005)) 0/2005)) place exposure limi	it 766 mg/m 500 ppm 958 mg/m
(EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) Short time value (Workplace exposure limit (EH40) Ilimit values Short time value (TLV - Adopted Value) Ilimit values Ilicable and available these will be listed below. Iable it will be listed below. NIOSH 5521 NIOSH 5522 Iues when using the substance or mixture as intended Stort expose	place exposure limi 0/2005)) 0/2005)) place exposure limi	it 766 mg/m 500 ppm 958 mg/m
(EH40/2005)) Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit (EH40) ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workg (EH40/2005)) Short time value (Workplace exposure limit (EH40) Short time value (Workplace exposure limit (EH40) Ilimit values Short time value (TLV - Adopted Value) Ilimit values Ilicable and available these will be listed below. Iable it will be listed below. NIOSH 5521 NIOSH 5522 Iues when using the substance or mixture as intended Stort expose	place exposure limi 0/2005)) 0/2005)) place exposure limi	it 766 mg/m 500 ppm 958 mg/m
(EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (TLV - Adopted Value) Ilimit values licable and available these will be listed below. Iable it will be listed below. NIOSH 5521 NIOSH 5522	0/2005)) 0/2005)) place exposure limi	500 ppm 958 mg/m
Short time value (Workplace exposure limit (EH40 ICO) Except methyl isocyanate ICO) Except methyl isocyanate ICEH40/2005)) Short time value (Workplace exposure limit 8 h (Workplace EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (TLV - Adopted Value) Ilimit values Ilicable and available these will be listed below. Ilable it will be listed below. Ilable it will be listed below. INOSH 5521 NIOSH 5522 Iues when using the substance or mixture as intended	0/2005)) place exposure limi	958 mg/m
ICO) Except methyl isocyanate Time-weighted average exposure limit 8 h (Workp (EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (TLV - Adopted Value) Ilimit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 lues when using the substance or mixture as intended	place exposure limi	
(EH40/2005)) Short time value (Workplace exposure limit (EH40 Short time value (TLV - Adopted Value) Llimit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substance or mixture as intended		it 0.02 mg/r
Short time value (TLV - Adopted Value) Llimit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substance or mixture as intended	0/2005))	
I limit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substance or mixture as intended		0.07 mg/r
I limit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substance or mixture as intended		
I limit values licable and available these will be listed below. lable it will be listed below. NIOSH 5521 NIOSH 5522 lues when using the substance or mixture as intended		1000 ppm
licable and available these will be listed below.		
rs		
no roce de la construcción de la	Remark	(
Long-term systemic effects inhalation 6.7 mg/m ³	Kenndik	
Long-term systemic effects dermal 47.9 mg/kg bw/da	av.	
2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, l		hylethyl) 2-chl
DMEL) Type Value	Remark	
Long-term systemic effects inhalation 5.82 mg/m ³	Norman	
Acute systemic effects dermal 8 mg/kg bw/day	3V	
	ау	
	ау	
DMEL) Type Value	ау ау	
Long-term systemic effects inhalation 2 mg/m ³	ay Remark	
		(
Long-term systemic effects dermal 28.75 mg/kg bw/d	Remark	(
Long-term systemic effects dermal 2.08 mg/kg br Acute systemic effects dermal 8 mg/kg br/kg br al population 70 DMEL) Type		

eaction mass of tris(2-chlorop	ropyl) phosphate and tris(2-chloro-1-methylethyl) pho	sphate and phosphoric acid, bis(2-c	hloro-1-methylethyl) 2-chloropropyl
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1.46 mg/m ³	
	Acute systemic effects inhalation	11.2 mg/m³	
	Long-term systemic effects dermal	1.04 mg/kg bw/day	
	Acute systemic effects dermal	4 mg/kg bw/day	
	Long-term systemic effects oral	0.52 mg/kg bw/day	
PNEC			

a

kanes, C14-17, chloro		
Compartments	Value	Remark
Fresh water	1 μg/l	
Marine water	<mark>0.2 μg/l</mark>	
STP	80 mg/l	
Fresh water sediment	13 mg/kg sediment dw	
Marine water sediment	2.6 mg/kg sediment dw	
Soil	11.9 mg/kg soil dw	
Oral	10 mg/kg food	
action mass of tris(2-ch <mark>loropropyl) phos</mark>	<mark>phate and tris(2-chlor</mark> o-1-methylethyl) phospha	ate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropy
Compartments	Value	Remark
Fresh water	0.64 mg/l	
Marine water	0.064 mg/l	
Aqua (intermittent rele <mark>ases)</mark>	0.51 mg/l	
STP	7.84 mg/l	
Fresh water sediment	13.4 mg/kg sediment dw	
Marine water sediment	1.34 mg/kg sediment dw	
Soil	1.7 mg/kg soil dw	
Oral	11.6 mg/kg food	
Control banding		

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:

	Materials		Breakthroug	h time		Thickness	
	LDPE (Low Density Poly E	thylene)	10 minutes			0.025 mm	
c) E	ve 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

Aerosol
Characteristic odour
No data available
Variable in colour, depending on the composition
Not applicable
No data available
Extremely flammable aerosol.
Not applicable (mixture)

Reason for revision: 15.1

Publication date: 2002-03-23 Date of revision: 2016-08-08

Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	>1
Vapour pressure	No data available
Solubility	organic solvents ; soluble
	water ; insoluble
Relative density	0.95 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperatur <mark>e</mark>	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available
Other information	
Absolute density	950 kg/m ³ ; 20 °C

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

FP-01-PU-M

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

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

alkanes, C14-17, chloro

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50		<mark>> 4000 m</mark> g/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50		<mark>> 13500</mark> mg/kg bw	24 h	Rabbit	Read-across	
Inhalation (vapours)	LC50		<mark>> 48170</mark> mg/m³	1 h	Rat	Read-across	

Reason for revision: 15.1

Publication date: 2002-03-23 Date of revision: 2016-08-08

Revision number: 0501

Product number: 51803

and phosphoric aci		<u>1VIETNVI NISI Z-Chioroni</u>	onvi) ester				
Route of expos			Value	Exposure time	Species	Value determination	Remark
Oral	LD50	FUNdethod D 1 tric	C22 mg/kg buy		Dat (famala)	Experimental value	
Oral Dermal	LD50	EU Method B.1 tris OECD 402	632 mg/kg bw > 2000 mg/kg bw		Rat (female) Rat (male/female)	Experimental value	
		OECD 402 OECD 403			Rat (male/female)	Experimental value	
Inhalation (aero			> 7 mg/l	4 n	Rat (male/female)	Experimental value	
udgement is based nclusion	I on the relevant li	ngredients					
Harmful if inhaled.							
Not classified as ac		t with skin					
Not classified as ac							
NOT CLASSIFIED as ac		veu					
sion/irritation							
<u>1-PU-M</u> No (test)data on th	o mixturo availabl	2					
· · /						_	
Route of exposu		e Method	Exposure time	Time point	Species	Value	Remark
Route of exposi	ire Result	ivietnoa	Exposure time	Time point	species	determination	Remark
Eye	Irritatin <mark>g;</mark>			_		Literature study	
Lye	category 2						
Skin	Irritating;					Literature study	
	category 2						
Inhalation	Irritating;					Literature study	
	STOT SE cat.3					,	
lkanes, C14-17, ch	loro						
Route of exposu		Method	Exposure time	Time point	Species	Value	Remark
						determination	
Еуе	Slightly <mark>irritati</mark>	ng			Rabbit	Expert judgement	
Skin	Slightly <mark>irritati</mark>	ng OECD 404	4 h	24; 72 hours	Rabbit	Expert judgement	
eaction mass of tri	is(2-chloropropyl)	phosphate and tris(2-	chloro-1-methylethyl) phosphate and phos	sphoric acid, bis(2-c	hloro-1-methylethyl)	2-chloroprop
		nylethyl bis(2-chlorop					_
Route of exposu	ire Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	OECD 405	24 h	7 days	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	7 days	Rabbit	Experimental value	2
Classification is bas	ed on the relevant	tingredients					
nclusion							
Causes skin irritatio							
Causes serious eye							
May cause respirat	ory irritation.						
atony or skin sons	itication						
atory or skin sens	lusation						
1-PU-M							
No (test)data on th	e mixture availabl	e					
olymethylene pol	yphenyl isoc <mark>yanat</mark>	<u>e</u>					
Route of exposu	ro Docult						
	e Result	Method	Exposure time	Observation time	Species	Value determination	Remark
	re kesuit	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing;	Method	Exposure time		Species	Value determination	Remark
Skin		Method	Exposure time		Species		Remark
Skin Inhalation	Sensitizi <mark>ng;</mark> category 1 Sensitizi <mark>ng;</mark>	Method	Exposure time		Species		Remark
-	Sensitizing; category 1	Method	Exposure time		Species	Literature study	Remark
Inhalation Ilkanes, C14-17, ch	Sensitizing; category 1 Sensitizing; category 1 loro		Exposure time	point	Species	Literature study Literature study	
Inhalation	Sensitizing; category 1 Sensitizing; category 1 loro	Method	Exposure time	point point Observation time	Species Species	Literature study	
Inhalation Ikanes, C14-17, ch Route of exposu	Sensitizing; category 1 Sensitizing; category 1 <u>loro</u> re Result	Method		point Observation time point	Species	Literature study Literature study Value determination	
Inhalation Ilkanes, C14-17, ch	Sensitizing; category 1 Sensitizing; category 1 loro	Method Guinea pig		point point Observation time		Literature study Literature study	
Inhalation Ilkanes, C14-17, ch Route of exposu Skin	Sensitizing; category 1 Sensitizing; category 1 iloro re Result Not sensitizing	Method Guinea pig maximisation test	Exposure time	point Observation time point 48 hours	Species Guinea pig	Literature study Literature study Value determination Experimental value	Remark
Inhalation Ilkanes, C14-17, ch Route of exposu Skin eaction mass of tri	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl)	Method Guinea pig maximisation test phosphate and tris(2-	Exposure time	point Observation time point 48 hours	Species Guinea pig	Literature study Literature study Value determination	Remark
Inhalation Ilkanes, C14-17, ch Route of exposu Skin eaction mass of tri Ind phosphoric aci	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 iloro re Result Not sensitizing is(2-chloropropyl) d, 2-chloro-1-meth	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chloropi	Exposure time	point Observation time point 48 hours) phosphate and phose	Species Guinea pig sphoric acid, bis(2-c	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) ;	Remark 2-chloroprop
Inhalation Ilkanes, C14-17, ch Route of exposu Skin eaction mass of tri	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 iloro re Result Not sensitizing is(2-chloropropyl) d, 2-chloro-1-meth	Method Guinea pig maximisation test phosphate and tris(2-	Exposure time	point Observation time point 48 hours) phosphate and phos	Species Guinea pig	Literature study Literature study Value determination Experimental value	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposu Skin eaction mass of tri nd phosphoric aci Route of exposu	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-metl re Result	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method	Exposure time	point Observation time point 48 hours) phosphate and phose	Species Guinea pig Sphoric acid, bis(2-c Species	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) : Value determination	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposu Skin eaction mass of tri nd phosphoric aci Route of exposu Skin	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-mett re Result Not sensitizing	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point Observation time point 48 hours) phosphate and phos	Species Guinea pig sphoric acid, bis(2-c	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) ;	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposur Skin eaction mass of tri and phosphoric aci Route of exposur Skin Classification is bas	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-mett re Result Not sensitizing	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point Observation time point 48 hours) phosphate and phos	Species Guinea pig Sphoric acid, bis(2-c Species	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) : Value determination	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposu Skin eaction mass of tri nd phosphoric aci Route of exposu Skin	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-mett re Result Not sensitizing	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point Observation time point 48 hours) phosphate and phos	Species Guinea pig Sphoric acid, bis(2-c Species	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) : Value determination	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposu Skin eaction mass of tri Ind phosphoric aci Route of exposu Skin Classification is bas Inclusion	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-metl re Result Not sensitizing ed on the relevant	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point point Observation time point 48 hours phosphate and phos Observation time point	Species Guinea pig sphoric acid, bis(2-c Species Mouse (female)	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) : Value determination Experimental value	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposur Skin eaction mass of tri and phosphoric aci Route of exposur Skin Classification is bas	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-metl re Result Not sensitizing ed on the relevant	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point point Observation time point 48 hours) phosphate and phos Observation time point	Species Guinea pig sphoric acid, bis(2-c Species Mouse (female) Publication date: 20	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) : Value determination Experimental value	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposu Skin eaction mass of tri Ind phosphoric aci Route of exposu Skin Classification is bas Inclusion	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-metl re Result Not sensitizing ed on the relevant	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point point Observation time point 48 hours) phosphate and phos Observation time point	Species Guinea pig sphoric acid, bis(2-c Species Mouse (female)	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) : Value determination Experimental value	Remark 2-chloroprop
Inhalation Ikanes, C14-17, ch Route of exposu Skin eaction mass of tri Ind phosphoric aci Route of exposu Skin Classification is bas Inclusion	Sensitizing; category 1 Sensitizing; category 1 Sensitizing; category 1 Not sensitizing is(2-chloropropyl) d, 2-chloro-1-metl re Result Not sensitizing ed on the relevant	Method Guinea pig maximisation test phosphate and tris(2- nylethyl bis(2-chlorop) Method OECD 429	Exposure time	point point Observation time point 48 hours Deservation time point Observation time point	Species Guinea pig sphoric acid, bis(2-c Species Mouse (female) Publication date: 20	Literature study Literature study Value determination Experimental value hloro-1-methylethyl) / Value determination Experimental value	Remark 2-chloroprop

FP-01-PU-M May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Specific target organ toxicity FP-01-PU-M No (test)data on the mixture available polymethylene polyphenyl isocyanate Route of exposure Parameter Method Value Organ Effect Exposure time Species Value determination Inhalation Literature study STOT RE cat.2 alkanes, C14-17, chloro Value Effect Value Route of exposure Parameter Method Organ Exposure time Species determination Oral (diet) NOAEL Equivalent to 300 ppm Liver; kidney No adverse 13 week(s) Rat Experimental (male/female) **OECD 408** systemic effects value NOAEL 100 mg/kg Oral (diet) Equivalent to Kidney No adverse 13 week(s) Rat Experimental OECD 408 (male/female) bw/day systemic effects value Dermal Data waiving Inhalation Data waiving reaction mass of tris(2-chloropropy) 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 Route of exposure Parameter Effect Value Method Value Organ Exposure time Species determination NOAEL No effect Rat (female) Oral (diet) Subchronic 171 mg/kg 13 weeks (daily) Experimental oxicity test w/day value Oral (diet) LOAEL Subchronic 52 mg/kg Liver Weight gain 13 weeks (daily) Rat (male) Experimental toxicity test bw/day value 0.586 mg/l air No effect Inhalation Dose level Mouse (male) Experimental (vapours) value Classification is based on the relevant ingredients **Conclusion** May cause damage to organs through prolonged or repeated exposure if inhaled. Not classified as sub-chronically toxic in contact with skin Not classified as sub-chronically toxic if swallowed Mutagenicity (in vitro) <u>FP-01-PU-M</u> No (test)data on the mixture available alkanes, C14-17, chloro Method Test substrate Value determination Result Effect Negative with metabolic OECD 471 Bacteria (S.typhimurium) No effect Experimental value activation, negative without metabolic activation reaction mass of tris(2-chloropropy) 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 Method Test substrate Effect Value determination Result Negative with metabolic OECD 482 Rat liver cells Experimental value activation, negative without metabolic activation Negative without metabolic **OECD 476** Mouse (lymphoma L5178Y Experimental value activation, positive with cells) metabolic activation Mutagenicity (in vivo)

<u>FP-01-PU-M</u>

No (test)data on the mixture available

alkanes, C14-17, chloro

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 day(s)	Rat (male)	Bone marrow	Experimental value
Negative	Equivalent to OECD 474		Mouse (male/female)	Bone marrow	Experimental value
son for revision: 15.1			Publication da	ate: 2002-03-23	
			Date of revision	on: 2016-08-08	
sion number: 0501			Product num	ber: 51803	9/17

phosphoric a Result	, <u> </u>	Ν	/lethod	Expo	sure time	e T	Fest substrate		Organ	V	alue determin
Negative		C	DECD 474			N	Mouse (male/fe	male)	Bone mar	row E	xperimental va
sification is b	ased on the	relevant ingre	dients								
lusion											
classified for	mutagenic o	or <mark>genotoxic to</mark>	oxicity								
enicity											
chicity											
<u>PU-M</u>											
(test)data on t											
methylene po Route of	olyphenyl is Paramete		Value		Exposur	o timo	Species	Effe	ot	Organ	Value
exposure	Falameter	ivietitou	value		Exposu	eune	species	Ellet	51	Organ	determina
Unknown			category	2		-					Literature
anes, C14-17, (chloro										
Route of	Parameter	r Method	Value		Exposur	e time	Species	Effe	ct	Organ	Value
exposure					-						determina
Oral	LOAEL	Equivalent		٨g	104 wee	•	Rat		inogenicity		Read-acros
<u> </u>		OECD 451	bw/day		days/we		(male/female				
Oral	LOAEL	Equivalent OECD 451	.	kg	103 wee days/we	•	Mouse (male/female		inogenicity		Read-acros
tion f	+rio(2 -1-1-		bw/day	lors 1		,		_		matheriter) 2 oblaza i i
			hate and tris(2-cl /l bis(2-chloropro			iyi) phosphat	e and phospho	ic acid, b	us(2-chioro-1	-methylethyl	J 2-Chloropropy
Route of	Parameter		Value		Exposur	e time	Species	Effe	ct	Organ	Value
exposure											determina
Inhalation											Data waivii
Dermal											Data waivii
Oral											Data waivii
<u>lusion</u> pected of cau: ctive toxicity <u>PU-M</u> (test)data on t						E					
pected of cau ctive toxicity <u>PU-M</u>	the mixture	available									
pected of cau ctive toxicity <u>PU-M</u> (test)data on t	the mixture		Method	Value		Exposure ti	me Species	Ef	ffect	Organ	Value
pected of cau ctive toxicity <u>PU-M</u> (test)data on t	the mixture chloro	available		Value 100 m	g/kg	Exposure til	me Species		ffect o effect	Organ	Value determina Experimen
pected of cau ctive toxicity <u>PU-M</u> (test)data on t ines, C14-17, i	the mixture chloro	available Parameter	Method			22 day(s)				Organ	determina
pected of cau ctive toxicity <u>PU-M</u> (test)data on t ines, C14-17, i	the mixture chloro tal toxicity	available Parameter	Method Equivalent to OECD 414 Equivalent to	100 mg bw/da 100 mg	y g/kg			N		Organ	determina Experimen value Experimen
pected of cau ctive toxicity <u>PU-M</u> (test)data on t innes, C14-17, f Development Maternal toxi	the mixture chloro tal toxicity icity	available Parameter NOAEL NOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414	100 mg bw/da 100 mg bw/da	y g/kg y	22 day(s)	Rabbit Rabbit	N	o effect o effect		determina Experimen value Experimen value
Dected of cau ctive toxicity (<u>U-M</u> (test)data on to nes, C14-17, to Development Maternal toxi	the mixture chloro tal toxicity icity	available Parameter NOAEL	Method Equivalent to OECD 414 Equivalent to	100 mg bw/da 100 mg bw/da 100 mg	y g/kg y g/kg	22 day(s)	Rabbit	N	o effect	Male	determina Experimen value Experimen value Experimen
pected of cau ctive toxicity <u>PU-M</u> (test)data on t innes, C14-17, f Development Maternal toxi	the mixture chloro tal toxicity icity	available Parameter NOAEL NOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414	100 mg bw/da 100 mg bw/da	y g/kg y g/kg	22 day(s)	Rabbit Rabbit	N	o effect o effect	Male	determina Experimen value Experimen value Experimen
pected of cau ctive toxicity <u>PU-M</u> (test)data on t innes, C14-17, f Development Maternal toxi	the mixture chloro tal toxicity icity	available Parameter NOAEL NOAEL NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414	100 mg bw/da 100 mg bw/da 100 mg bw/da	y g/kg y g/kg y	22 day(s) 22 day(s) 9 week(s)	Rabbit Rabbit Rabbit Rat (male)	N	o effect o effect	Male	determina Experimen value Experimen value Experimen
Dected of cau ctive toxicity P <u>U-M</u> (test)data on t ines, C14-17, t Development Maternal toxi	the mixture chloro tal toxicity icity	available Parameter NOAEL NOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421	100 mg bw/da 100 mg bw/da 100 mg	y g/kg y g/kg y g/kg	22 day(s) 22 day(s) 9 week(s)	Rabbit Rabbit	N	o effect o effect o effect	Male reproducti organ Female reproducti	determina Experimen value Experimen value Experimen value Experimen
pected of cau ctive toxicity <u>2U-M</u> (test)data on t innes, C14-17, d Development Maternal toxi Effects on fer	the mixture chloro tal toxicity icity tility	available Parameter NOAEL NOAEL NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da	y g/kg y g/kg y g/kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s)	Rabbit Rabbit Rabbit Rat (male)	N	o effect o effect o effect	Male reproducti organ Female	determina Experimen value Experimen value Experimen value Experimen value
Dected of cau ctive toxicity P <u>U-M</u> (test)data on t ines, C14-17, t Development Maternal toxi	the mixture chloro tal toxicity icity tility	available Parameter NOAEL NOAEL NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca	y g/kg y g/kg y g/kg g/kg y ause	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rabbit Rat (male)	N	o effect o effect o effect	Male reproducti organ Female reproducti	determina Experimen value Experimen value Experimen value Experimen value Experimen
pected of cau ctive toxicity <u>2U-M</u> (test)data on t innes, C14-17, d Development Maternal toxi Effects on fer	the mixture chloro tal toxicity icity tility	available Parameter NOAEL NOAEL NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da	y g/kg y g/kg y g/kg y g/kg y uuse o breast-	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rabbit Rat (male)	N	o effect o effect o effect	Male reproducti organ Female reproducti	determina Experimen value Experimen value Experimen value Experimen value
pected of cau ctive toxicity <u>2U-M</u> (test)data on t innes, C14-17, d Development Maternal toxi Effects on fer Effects on lac	the mixture chloro tal toxicity icity tility tation	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 414 OECD 421 OECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi	y g/kg y g/kg y g/kg y g/kg y use o breast- Idren.	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) - 12 Rat (femal	N N P) N	o effect o effect o effect o effect	Male reproducti organ Female reproducti organ	determina Experimen value Experimen value Experimen value Experimen value Experimen value
pected of cau ctive toxicity 2 <u>U-M</u> (test)data on t anes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of	the mixture chloro tal toxicity icity tility tation tris(2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da	y g/kg y g/kg y g/kg y g/kg y use o breast- idren. hethyleth	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) - 12 Rat (femal	N N P) N	o effect o effect o effect o effect	Male reproducti organ Female reproducti organ	determina Experimen value Experimen value Experimen value Experimen value Experimen value
pected of cau ctive toxicity 2 <u>U-M</u> (test)data on t anes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of	the mixture chloro tal toxicity icity tility tation tris(2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P)	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 414 OECD 421 OECD 421 hate and tris(2-ch	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da	y g/kg y g/kg y g/kg y g/kg y use o breast- idren. hethyleth	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) - 12 Rat (femal	P) N	o effect o effect o effect o effect	Male reproducti organ Female reproducti organ	determina Experimen value Experimen value Experimen value Experimen value Experimen value) 2-chloropropy
pected of cau ctive toxicity <u>2U-M</u> (test)data on t innes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of <u>phosphoric a</u>	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P) Depropyl) phosp 0-1-methylethy Parameter	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 421 OECD 421 hate and tris(2-ch/loroproc Method	100 mg bw/da 100 mg 100 mg bw/da 100 mg bw/d	y g/kg y g/kg y g/kg y use o breast- Idren. hethyleth r	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (fem	P) N P) N P) E1	o effect o effect o effect o effect	Male reproducti organ Female reproducti organ -methylethyl	determina Experimen value Experimen value Experimen value Experimen value Experimen value 2-chloropropy Value determina
pected of cau ctive toxicity <u>2U-M</u> (test)data on t innes, C14-17, d Development Maternal toxi Effects on fer Effects on lac	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P) ppropyl) phosp p-1-methylethy	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421 OECD 421 OECD 421	100 mg bw/da 100 mg 100 mg bw/da 100 mg bw/d	y g/kg y g/kg y g/kg y o breast- Idren. hethyleth r	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) - 12 Rat (femal	P) N P) N P) E1	o effect o effect o effect o effect	Male reproducti organ Female reproducti organ -methylethyl	determina Experimen value Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen
pected of cau: ctive toxicity <u>2U-M</u> (test)data on t innes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of <u>phosphoric a</u> Development	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro icid, 2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P) Depropyl) phosp p-1-methylethy Parameter LOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 421 OECD 421 DECD 421 DECD 421 DECD 421 Method DECD 421 OECD 421 DECD 421 DECD 421 DECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (fem	e) Er	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ -methylethyl Organ	determina Experimen value Experimen value Experimen value Experimen value (Experimen value) 2-chloropropy Value determina Experimen value
pected of cau ctive toxicity 2 <u>U-M</u> (test)data on t anes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro icid, 2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P) Depropyl) phosp 0-1-methylethy Parameter	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 421 OECD 421 hate and tris(2-ch/loroproc Method	100 mg bw/da 100 mg 100 mg bw/da 100 mg bw/d	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (fem	e) Er	o effect o effect o effect o effect	Male reproducti organ Female reproducti organ -methylethyl Organ	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value
pected of cau ctive toxicity 2 <u>U-M</u> (test)data on t anes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of phosphoric a Development	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro icid, 2-chloro	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P) Depropyl) phosp p-1-methylethy Parameter LOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 421 OECD 421 DECD 421 DECD 421 DECD 421 Method DECD 421 OECD 421 DECD 421 DECD 421 DECD 421	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat Rat	e) Er	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ methylethyl Organ / /	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value
pected of cause ctive toxicity 2 <u>U-M</u> (test)data on t anes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of phosphoric a Development Effects on fer	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro icid, 2-chloro tal toxicity tility	available Parameter NOAEL NOAEL NOAEL (P) NOAEL (P) Depropyl) phosp p-1-methylethy Parameter LOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421 DECD 421 DECD 421 OECD 421 Method OECD 416 OECD 416	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat Rat	e) Er	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ 	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value
pected of cause ctive toxicity 2 <u>U-M</u> (test)data on t anes, C14-17, d Development Maternal toxi Effects on fer Effects on lac ction mass of phosphoric a Development Effects on fer	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro icid, 2-chloro tal toxicity tility	available Parameter NOAEL NOAEL NOAEL NOAEL (P) NOAEL (P) Depropyl) phosp p-1-methylethy Parameter LOAEL LOAEL LOAEL	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421 DECD 421 DECD 421 OECD 416 OECD 416	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat Rat	e) Er	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ 	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value
pected of cause ctive toxicity 2 <u>U-M</u> (test)data on the anes, C14-17, of Development Maternal toxi Effects on fer Effects on lace ction mass of phosphoric a Development Effects on fer	the mixture chloro tal toxicity icity tility tation tris(2-chloro icid, 2-chloro icid, 2-chloro tal toxicity tility	available Parameter NOAEL NOAEL NOAEL NOAEL (P) NOAEL (P) NOAEL (P) Dopropyl) phosp o-1-methylethy Parameter LOAEL LOAEL LOAEL relevant ingree	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 421 DECD 421 DECD 421 OECD 416 OECD 416	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat Rat	e) Er	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ 	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value
pected of cause ctive toxicity 2 <u>U-M</u> (test)data on the anes, C14-17, of Development Maternal toxi Effects on fer Effects on lacc ction mass of the phosphoric a Development Effects on fer sification is ba lusion y cause harm	the mixture chloro tal toxicity icity tility tation tris(2-chloro cid, 2-chloro tal toxicity tility tility tased on the to breast-fe	available Parameter NOAEL NOAEL NOAEL NOAEL (P) NOAEL (P) NOAEL (P) Dopropyl) phosp o-1-methylethy Parameter LOAEL LOAEL LOAEL relevant ingree	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 414 OECD 421 OECD 416 OECD 416 OECD 416 OECD 416	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat Rat	e) Er	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ 	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value
pected of cause ctive toxicity 2 <u>U-M</u> (test)data on the anes, C14-17, of Development Maternal toxi Effects on fer Effects on lacc ction mass of the phosphoric a Development Effects on fer sification is ba lusion y cause harm	the mixture chloro tal toxicity tility tility tation tris(2-chloro cid, 2-chloro tal toxicity tility tility tility	available Parameter NOAEL NOAEL NOAEL NOAEL (P) NOAEL (P) NOAEL (P) Dopropyl) phosp po-1-methylethy Parameter LOAEL LOAEL LOAEL LOAEL celevant ingree d children.	Method Equivalent to OECD 414 Equivalent to OECD 414 OECD 414 OECD 414 OECD 421 OECD 416 OECD 416 OECD 416 OECD 416	100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da 100 mg bw/da May ca harm t fed chi nloro-1-m pyl) este Value 99 mg/ bw/da	y g/kg y g/kg y g/kg y ause o breast- Idren. hethyleth r /kg y	22 day(s) 22 day(s) 9 week(s) 11 week(s) week(s)	Rabbit Rabbit Rat (male) Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (femal Rat (male/fem Rat	e) N ic acid, b Ef e) Er ale) M	o effect o effect o effect o effect o effect	Male reproducti organ Female reproducti organ 	determina Experimen value Experimen value Experimen value Experimen value) 2-chloropropy Value determina Experimen value

Toxicity other effects

FP-01-PU-M

No (test)data on the mixture available

alka	nes, C14-17, chlor	<u>o</u>				_		
	Parameter	Method	Value	Organ	Effect	Exposure time		Value
								determination
		Other		Skin	Skin dryness or		Rat	Experimental value
					cracking			

Chronic effects from short and long-term exposure

FP-01-PU-M

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

FP-01-PU-M

No (test)data on the mixture available

polymethylene polyphenyl isocyanate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity other aquatic organisms	LC50		> 1000 mg/l	96 h				Literature study
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l		Activated sludge			Literature study

alkanes, C14-17, chloro								
	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 10000 mg/l		Alburnus alburnus	Static system	Salt water	Experimental value
Acute toxicity invertebrates	EC50	OECD 203	<mark>0.007</mark> 7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	> 3.2 mg/l		Pseudokirchneriel la subcapitata	Static system		Experimental value; Growth rate
Long-term toxicity fish	NOEC	OECD 204	<mark>> 125</mark> µg/l	/ (- /		Semi-static system	Salt water	Experimental value
Long-term toxicity invertebrates	NOEC	OECD 202	<mark>0.01</mark> mg/l	21 day(s)	Daphnia magna	Static system	Fresh water	Experimental value

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

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Other	56.2 mg/l	96 h	Brachydanio rerio	Static system		Experimental value; GLP
Acute toxicity invertebrates	LC50		<mark>131 m</mark> g/l	48 h	Daphnia magna	Static system	Fresh water	Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	<mark>82 m</mark> g/l		Pseudokirchneriel la subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity invertebrate	s NOEC	OECD 202	32 mg/l	21 day(s)		Semi-static system		Experimental value; GLP
Toxicity aquatic micro- organisms	EC50	ISO 8192	784 mg/l	3 h	Activated sludge	Static system		Experimental value; GLP

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

Conclusion

May cause long lasting harmful effects to aquatic life.

12.2. Persistence and degradability

polymethylene polyphenyl isocyanate

Biodegradation water

Method		Value	Duration		Value determination			
OECD 302C: Inherent Biode Modified MITI Test (II)	ECD 302C: Inherent Biodegradability: Aodified MITI Test (II)		egradability: < 60 %				Experimental value	
Reason for revision: 15.1				Publication date: 2002 Date of revision: 2016				

			h/-1-		Demotion	Malar 1 1 1 1
Method			Value		Duration	Value determination
OECD 301D: Close		est	63 %		60 day(s)	Experimental value
Biodegradation soi	il					
Method			Value		Duration	Value determination
			51 % - 57 %		36 h	Experimental value
eaction mass of tris	2-chloropro	opyl) phosphate	and tris(2-chlo	oro-1-methylethyl) p	phosphate and phosphoric acid, bis	2-chloro-1-methylethyl) 2-chloroproj
ester and phosphoric	c acid, 2-chl					
Biodegradation wa	ater					
Method			Value		Duration	Value determination
OECD 301E: Mod	lified OECD	Screening Test	14 %; GLP		28 day(s)	Experimental value
District States State States States State States States State States States State			s)			
g Kow						
Method	F	Remark		Value	Temperature	Value determination
	1	Not applicable (n	nixture)			
oolymethylene polyp BCF fishes	henyl isocy	vanate				
Parameter	Method	l Valu	e	Duration	Species	Value determination
BCF		1			Pisces	Literature study
		+				
Log Kow Method		Remark		Value	Temperature	Value determination
wictiou		No data avail	ahla	Value	remperature	
		NO GALA AVAIL	aule			
Ikanes, C14-17, chlo	oro					
BCF fishes		. hr.		b "	h ·	
Parameter	Method			Duration	Species	Value determination
BCF	OECD 30	05 666)	35 day(s)	Oncorhynchus mykiss	Experimental value
Log Kow						
Method						
Iviethou		Remark		Value	Temperature	Value determination
	2-chloron		and tric/2_cblc	5.47 - 8.01		Experimental value
eaction mass of tris(ester and phosphoric BCF fishes	c acid, 2-chl	opyl) phosphate oro-1-methyleth	yl bis(2-chloro	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester	phosphate and phosphoric acid, bis	Experimental value 2-chloro-1-methylethyl) 2-chloroprop
eaction mass of tris(ester and phosphoric BCF fishes Parameter	<u>acid, 2-chl</u> Method	opyl) phosphate oro-1-methyleth	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p ppropyl) ester Duration	phosphate and phosphoric acid, bis	Experimental value 2-chloro-1-methylethyl) 2-chloropro Value determination
eaction mass of tris(ster and phosphoric BCF fishes	c acid, 2-chl	opyl) phosphate oro-1-methyleth	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester	phosphate and phosphoric acid, bis	Experimental value 2-chloro-1-methylethyl) 2-chloroprop
eaction mass of tris(ster and phosphoric BCF fishes Parameter BCF Log Kow	<u>acid, 2-chl</u> Method	opyl) phosphate oro-1-methyleth 1 Valu 05 0.8 -	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s)	shosphate and phosphoric acid, bis Species Cyprinus carpio	Experimental value 2-chloro-1-methylethyl) 2-chloroprop Value determination Experimental value
eaction mass of tris(ster and phosphoric BCF fishes Parameter BCF Log Kow Method	<u>acid, 2-chl</u> Method	opyl) phosphate oro-1-methyleth	yl bis(2-chlorc	5.47 - 8.01 > 5 prop-1-methylethyl) p propyl) ester Duration 6 week(s) Value	shosphate and phosphoric acid, bis Species Cyprinus carpio Temperature	Experimental value 2-chloro-1-methylethyl) 2-chloropro Value determination
eaction mass of tris(ester and phosphoric BCF fishes Parameter BCF Log Kow	<u>acid, 2-chl</u> Method	opyl) phosphate oro-1-methyleth 1 Valu 05 0.8 -	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s)	shosphate and phosphoric acid, bis Species Cyprinus carpio	Experimental value 2-chloro-1-methylethyl) 2-chloroprop Value determination Experimental value
reaction mass of tris(ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 Dinclusion Contains bioaccumul 2.4. Mobility in se alkanes, C14-17, chlo (log) Koc	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s) Value 2.68	shosphate and phosphoric acid, bis Species Cyprinus carpio Temperature	Experimental value 2-chloro-1-methylethyl) 2-chloroprop Value determination Experimental value Value determination Experimental value
ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 onclusion Contains bioaccumul 2.4. Mobility in s alkanes, C14-17, chlo (log) Koc Parameter	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 prop-1-methylethyl) p propyl) ester Duration 6 week(s) Value	shosphate and phosphoric acid, bis Species Cyprinus carpio Temperature	Experimental value 2-chloro-1-methylethyl) 2-chloropro Value determination Experimental value Value determination Experimental value Value determination Value determination
reaction mass of tris(ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 onclusion Contains bioaccumul 2.4. Mobility in s alkanes, C14-17, chlo	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 prop-1-methylethyl) p propyl) ester Duration 6 week(s) Value	shosphate and phosphoric acid, bis Species Cyprinus carpio Temperature	Experimental value 2-chloro-1-methylethyl) 2-chloropy Value determinatio Experimental value Value determination
reaction mass of tris(ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 Dinclusion Contains bioaccumul 2.4. Mobility in se alkanes, C14-17, chlo (log) Koc	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s) Value 2.68	Species Cyprinus carpio Temperature 30 °C	Experimental value 2-chloro-1-methylethyl) 2-chloropro Value determination Experimental value Value determination Experimental value
reaction mass of tris(ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 onclusion Contains bioaccumul 2.4. Mobility in s alkanes, C14-17, chlo (log) Koc Parameter	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s) Value 2.68	shosphate and phosphoric acid, bis Species Cyprinus carpio Temperature 30 °C Value	Experimental value 2-chloro-1-methylethyl) 2-chloropro Value determination Experimental value Value determination Experimental value Value determination Value determination
reaction mass of tris(ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 onclusion Contains bioaccumul 2.4. Mobility in s alkanes, C14-17, chlo (log) Koc Parameter	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s) Value 2.68	species Cyprinus carpio Temperature 30 °C Value 5	Experimental value Control Con
eaction mass of tris(ister and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 nclusion Contains bioaccumul 2.4. Mobility in s ilkanes, C14-17, chlo (log) Koc Parameter log Koc	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s) Value 2.68	phosphate and phosphoric acid, bis Species Cyprinus carpio Temperature 30 °C Value 5	Experimental value Control
Parameter BCF fishes BCF Log Kow Method EU Method A.8 Dinclusion Contains bioaccumul 2.4. Mobility in s alkanes, C14-17, chlo (log) Koc Parameter log Koc	Active comp	opyl) phosphate oro-1-methyleth d Valu 05 0.8 - Remark	yl bis(2-chlorc	5.47 - 8.01 > 5 pro-1-methylethyl) p propyl) ester Duration 6 week(s) Value 2.68	species Cyprinus carpio Temperature 30 °C Value 5	Experimental value Control

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

(log) Koc									
Parameter				Method			Value		Value determination
log Koc				EU Meth	od C.19		2.76		Experimental value
Volatility (Henry's Law co	onst <mark>ant H)</mark>								
Value	Meth	od	Tem	perature		Remark			Value determination
0.00042 Pa.m ³ /mol			25 °C						Read-across
Percent distribution									
Method Fra	action air	Fraction biota	Fraction sedimen		Fraction soil	Fraction	water	Value dete	ermination
Mackay level I 0.0)1 %	0 %	3.55 %		3.52 %	92.89 %		Read-acro	55

Conclusion

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

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

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

FP-01-PU-M

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

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

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

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

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

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

13.1.2 Disposal methods

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

13.1.3 Packaging/Container

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 2 Classification code 5F 14.4. Packing group Packing group 2.1 Labels 14.5. Environmental hazards Environmentally hazardous substance mark no 14.6. Special precautions for user Special provisions 190 Reason for revision: 15.1 Publication date: 2002-03-23 Date of revision: 2016-08-08 Revision number: 0501 Product number: 51803 13/17

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)
nil (RID)	
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	23
Class	2
Classification code	SF
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	no
14.6. Special precautions for user	
Special provisions	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)
	indered a sugar for meller more filler to rg. (Bross mass)
land waterways (ADN) 14.1. UN number	
UN number	1950
14.2. UN proper shipping name	1230
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
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)
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	F-
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
n for revision: 15.1	Publication date: 2002-03-23
	Date of revision: 2016-08-08
	Date of revision. 2010-00-00

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)
4.7. Transport in bulk according to Annex II of I	Marpol and the IBC Code
Annex II of MARPOL 73/78	Not applicable
(ICAO-TI/IATA-DGR) 4.1. UN number	
UN number	1950
4.2. UN proper shipping name	
Proper shipping name	Aerosols, flammable
4.3. Transport hazard class(es)	
Class	2.1
4.4. Packing group	
Packing group	
Labels	2.1
4.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	no
4.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
limited quantities: maximum net quantity pe	er 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			
< 24 %			
< 228 g/l			

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the substances or of the mixture	group of	Conditions of restriction
 polymethylene polyphenyl isocyanate alkanes, C14-17, chloro reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethy phosphate and phosphoric acid, bis(2-chlor 1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester 	 for any of the following hazard classe categories set out in Annex I to Regu No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and types A and B, 2.9, 2.10, 2.12, 2.13 c and 2, 2.14 categories 1 and 2, 2.15 f F; 	e with s the criteria es or alation (EC) 2.7, 2.8 ategories 1 types A to erse effects	 Shall not be used in: ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, tricks and jokes, games for one or more participants, or any article intended to be used as such, even with ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
Reason for revision: 15.1	1		Publication date: 2002-03-23 Date of revision: 2016-08-08
Revision number: 0501			Product number: 51803 15 / 17

FP-01-PU-M				
	if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intend for supply to the general public.7. Natural or legal persons placing on the market for the fir 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. Membe States shall make those data available to the Commission.'			
National legislation Belgium				
<u>FP-01-PU-M</u> No data available				
	orlande			
National legislation The Net FP-01-PU-M				
Waste identification (th	e LWCA (the Netherlands): KGA category 06			
Netherlands) Waterbezwaarlijkheid	A (2)			
National legislation France				
FP-01-PU-M				
No data available				
National legislation German				
FP-01-PU-M				
WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdende Stoffe (VwVwS) of 27 July 2005 (Anhang 4)			
polymethylene polyphen	/lisocyanate			
TRGS905 - Krebserzeug TRGS905 - Erbgutverän				
TRGS905 -				
Fruchtbarkeitsgefährde				
TRGS905 - Fruchtschäd TA-Luft	gend			
TRGS900 - Risiko der	pMDI (als MDI berechnet); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des			
Fruchtschädigung	biologischen Grenzwertes nicht befürchtet zu werden			
Sensibilisierende Stoffe Hautresorptive Stoffe	pMDI (als MDI berechnet); Sa; Atemwegssensibilisierende Stoffe pMDI (als MDI berechnet); H; Hautresorptiv			
alkanes, C14-17, chloro				
TA-Luft TRGS900 - Risiko der	5.2.5; I Chloralkane, C14-17 (Chlorierte Paraffine C14-17); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des			
Fruchtschädigung	Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden			
Hautresorptive Stoffe	Chloralkane, C14-17 (Chlorierte Paraffine C14-17); H; Hautresorptiv			
	loropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropro , 2-chloro-1-methylethyl bis(2-chloropropyl) ester			
TA-Luft	5.2.5			
National legislation United I	ingdom			
<u>FP-01-PU-M</u> No data available				
polymethylene polyphen	d isocvanate			
Skin Sensitisation	Isocyanates, all (as -NCO) Except methyl isocyanate; Sen			
Respiratory sensitisation	n Isocyanates, all (as -NCO) Except methyl isocyanate; Sen			
Other relevant data				
<u>FP-01-PU-M</u> No data available				
polymethylene polyphen	/ isocyanate			
IARC - classification	3; Polymethylene polyphenyl isocyanate			
alkanes, C14-17, chloro IARC - classification	2B; Chlorinated paraffins			
15.2. Chemical safety ass				
No chemical safety asses	ment has been conducted for the mixture.			
CTION 16: Other in	formation			
-	referred to under headings 2 and 3:			
H220 Extremely flamma H222 Extremely flamma				
ason for revision: 15.1	Publication date: 2002-03-23			
	Date of revision: 2016-08-08			

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

(*) INTERNAL CLASSIFICATION BY BIG

PBT-substances persistent, bioaccumulative and toxic substances

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

Specific concentration limits CLP

polymethylene polypheny <mark>l 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
alkanes, C14-17, chloro	1,0 % ≤ C ≤ 20 %	EUH066	FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014)
	1,0 % ≤ C ≤ 20 %	Lact. ; H362	FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014)
	0,25 % ≤ C ≤ 20 %	Aquatic Chron. 4;H413	FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet 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: 15.1

Publication date: 2002-03-23 Date of revision: 2016-08-08

Revision number: 0501

Product number: 51803