

# SAFETY DATA SHEET

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

# **Soudabond Easy**

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

#### 1.1. Product identifier

Product name Registration number REACH Product type REACH : Soudabond Easy : 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):

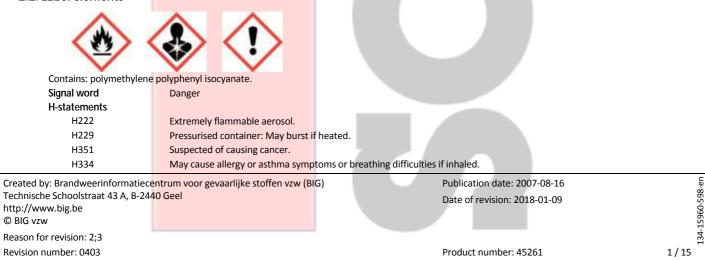
+32 14 58 45 45 (BIG)

## SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classified as da	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	categ <mark>ory 2</mark>	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Skin Irrit.	categ <mark>ory 2</mark>	H315: Causes skin irritation.
Eye Irrit.	categ <mark>ory 2</mark>	H319: Causes serious eye irritation.
STOT SE	categ <mark>ory 3</mark>	H335: May cause respiratory irritation.

#### 2.2. Label elements



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 informati	on and a second s
	- 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 astrima, eczema or skin products, 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	с	onc. (C)	Classification according to CLP	Note	Remark
polymethylene polyphenyl isoc	yanate	9016-87-9	С	>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-chloropr tris(2-chloro-1-methylethyl) ph acid, bis(2-chloro-1-methylethy and phosphoric acid, 2-chloro-1 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 available it will be listed below.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), Foam. Major fire: Water (water can be used to control jet flame), Foam.

#### 5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (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 <sup>3</sup>
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 <sup>3</sup>
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 <sup>3</sup>
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 <sup>3</sup>
Isobutan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m <sup>3</sup>
	)	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m <sup>3</sup>
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	e-weighted average exp	osure limit 8 h (TRGS	900)	1000 ppm
riopan				e-weighted average exp			1800 mg/m <sup>3</sup>
				-weighted average exp		500)	1000 mg/m
UK					_		
Dimethyl ether			Time	e-weighted average exp	osure limit 8 h (Work	place exposure limit	400 ppm
,				0/2005))			
			2	e-weighted average exp	osure limit 8 h (Worki	nlace exposure limit	766 mg/m³
				0/2005))			/ 00 mg/ m
							500
				t time value (Workplac			500 ppm
				t time value (Workplac			958 mg/m <sup>3</sup>
Isocyanates, all (as -NC	O) Except met	thyl isocyanate		e-weighted average exp	osure limit 8 h (Work)	place exposure limit	0.02 mg/m³
				0/2005))			
			Shor	t time value (Workplac	e exposure limit (EH40	0/2005))	0.07 mg/m³
USA (TLV-ACGIH)							-
Butane, all isomers			Shor	t time value (TLV - Ado	pted Value)		1000 ppm
Methylene bisphenyl is	oc <mark>yanate (</mark> MD	DI)	Time	e-weighted average exp	osure limit 8 h (TLV - /	Adopted Value)	0.005 ppm
b) National biological li	mit values						•
If limit values are applic		labla thosa will ba	listed below				
8.1.2 Sampling methods	able allu avali	lable these will be	listed below.				
Product name			T	est	Number		
Isocyanates			N	NOSH	5521		
Isocyanates			Ν	NOSH	5522		
8.1.3 Applicable limit value	es when usina	the substance or	mixture as in	ntended			
If limit values are applic	able and avail	able these will be	listed below.				
8.1.4 DNEL/PNEC values							
DNEL/DMEL - Workers							
reaction mass of tris(2-					e and phosphoric acid	, bis(2-chloro-1-meth	vlethyl) 2-chloro
ester and phosphoric ad			2-chloroprop	<u>vi) ester</u>			
Effect level (DNEL/DN	MEL)	Туре			Value	Remark	
DNEL		Long-term system	<mark>nic effect</mark> s inł	nalation	5.82 mg/m³		
		Acute systemic et	ffects inhalat	ion	22.4 mg/m <sup>3</sup>		
		Long-term system	nic effects de	rmal	2.08 mg/kg bw/da	v	
			ffects dermal		8 mg/kg hw/day		
DNEL/DMEL - General reaction mass of tris(2- ester and phosphoric and	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2		methylethyl) phosphat			ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DN	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type	is(2-chloro-1- 2-chloropropy	<u>methylethyl) phosphat yl) ester</u>	e and phosphoric acid	, bis(2-chloro-1-meth Remark	ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system	is(2-chloro-1- 2-chloropropy nic effects inh	<u>methylethyl) phosphat</u> yl) ester nalation	e and phosphoric acid Value 1.46 mg/m <sup>3</sup>		ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DN	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic et	is(2-chloro-1- 2-chloropropropropropring) nic effects inhalat	<u>methylethyl) phosphat</u> yl) ester nalation ion	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup>	Remark	ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DN	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system	is(2-chloro-1- 2-chloropropy nic effects inh ffects inhalat nic effects de	<u>methylethyl) phosphat</u> yl) ester nalation ion ırmal	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da	Remark	ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DN	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic e Long-term system Acute systemic e	is(2-chloro-1- 2-chloropropro- nic effects inh ffects inhalat nic effects de ffects dermal	methylethyl) phosphat yl) ester nalation ion ırmal	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day	Remark	ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DI DNEL	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system	is(2-chloro-1- 2-chloropropro- nic effects inh ffects inhalat nic effects de ffects dermal	methylethyl) phosphat yl) ester nalation ion ırmal	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da	Remark	ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DN	chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic e Long-term system Acute systemic e	is(2-chloro-1- 2-chloropropro- nic effects inh ffects inhalat nic effects de ffects dermal	methylethyl) phosphat yl) ester nalation ion ırmal	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day	Remark	ylethyl) 2-chloro
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC	chloropropyl) cid, 2-chloro-1 MEL)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic e Long-term system Acute systemic e Long-term system	is(2-chloro-1- 2-chloropropy nic effects inhalat ffects inhalat nic effects de ffects dermal nic effects or:	methylethyl) phosphat yl) ester nalation ion ırmal al	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da	Remark y y	
reaction mass of tris(2- ester and phosphoric ac Effect level (DNEL/DI DNEL <u>PNEC</u> reaction mass of tris(2-	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri	is(2-chloro-1- 2-chloropropy nic effects inhalat ffects inhalat nic effects de ffects dermal nic effects or is(2-chloro-1-	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da	Remark y y	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL <u>PNEC</u> reaction mass of tris(2-i ester and phosphoric ac	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2	is(2-chloro-1- 2-chloropropy nic effects inhalat ffects inhalat nic effects de ffects dermal nic effects or is(2-chloro-1-	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2	is(2-chloro-1- 2-chloropropy nic effects inhalat ffects inhalat nic effects de ffects dermal nic effects or is(2-chloro-1- 2-chloropropy /alue	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2	is(2-chloro-1- 2-chloropropy nic effects inhalat ffects inhalat nic effects de ffects dermal nic effects or is(2-chloro-1- 2-chloropropy Value 0.64 mg/l	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects de ffects dermal nic effects or- sis(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy Aller flects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or- 1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy Anic effects inhalat nic effects dermal nic effects dermal nic effects or is(2-chloro-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 7.84 mg/l	methylethyl) phosphat yl) ester nalation ion mmal al methylethyl) phosphat yl) ester	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1 leases)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 7 1	is(2-chloro-1- 2-chloropropy And effects inhalat nic effects dermal nic effects dermal nic effects or is(2-chloro-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg se	methylethyl) phosphat yl) ester nalation ion mmal al methylethyl) phosphat yl) ester ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1 leases)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy And effects inhalat nic effects dermal nic effects dermal nic effects or is(2-chloro-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg se 1.34 mg/kg se	methylethyl) phosphat yl) ester nalation ion mmal al methylethyl) phosphat yl) ester ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1 leases)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy And effects inhalat nic effects dermal nic effects dermal nic effects or is(2-chloro-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg se	methylethyl) phosphat yl) ester nalation ion mmal al methylethyl) phosphat yl) ester ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1 leases)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy And effects inhalat ffects inhalat ffects dermal mic effects dermal mic effects or ffects dermal nic effects or is(2-chloro-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.34 mg/kg se	methylethyl) phosphat yl) ester nalation ion wrmal al methylethyl) phosphat yl) ester ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral	chloropropyl) cid, 2-chloro-1 MEL) chloropropyl) cid, 2-chloro-1 leases)	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg see 1.7 mg/kg soi	methylethyl) phosphat yl) ester nalation ion wrmal al methylethyl) phosphat yl) ester ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) t nt	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg see 1.7 mg/kg soi	methylethyl) phosphat yl) ester nalation ion wrmal al methylethyl) phosphat yl) ester ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) t nt	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg see 1.7 mg/kg soi	methylethyl) phosphat yl) ester nalation ion wrmal al methylethyl) phosphat yl) ester ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DN DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac Compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availab	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) t nt	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg see 1.7 mg/kg soi	methylethyl) phosphat yl) ester nalation ion wrmal al methylethyl) phosphat yl) ester ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/da 4 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid	Remark	
reaction mass of tris(2-i ester and phosphoric ad Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-d ester and phosphoric ad compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availab	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) t nt nt oble it will be lis	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or. (2-chlorop-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 13.4 mg/kg see 1.34 mg/kg see 1.7 mg/kg soil 11.6 mg/kg for	methylethyl) phosphat yl) ester nalation ion rmal al methylethyl) phosphat yl) ester ediment dw ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) t nt ble it will be lis	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or. (2-chlorop-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 13.4 mg/kg see 1.34 mg/kg see 1.7 mg/kg soil 11.6 mg/kg for	methylethyl) phosphat yl) ester nalation ion rmal al methylethyl) phosphat yl) ester ediment dw ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect scenarios that correspond to	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) leases) t nt oble it will be lis tion is a gener- to your identif	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or. (2-chlorop-1- 2-chloropropy Value 0.64 mg/l 0.51 mg/l 0.064 mg/l 13.4 mg/kg see 1.34 mg/kg see 1.7 mg/kg soil 11.6 mg/kg for	methylethyl) phosphat yl) ester nalation ion rmal al methylethyl) phosphat yl) ester ediment dw ediment dw ediment dw	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect scenarios that correspond t 8.2.1 Appropriate engineet	chloropropyl) cid, 2-chloro-1 VIEL) chloropropyl) cid, 2-chloro-1 leases) leases) t nt ole it will be lis tion is a gener- to your identif ring controls	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy fice effects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or. is(2-chloropropy /alue 0.64 mg/l 0.64 mg/l 0.64 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.1.6 mg/kg for pplicable and	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i od	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ad Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ad compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine adder sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineer Use spark-/explosionpri	chloropropyl) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 leases) leases) t to ple it will be lis tion is a gener- to your identif ring controls oof appliances	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.64 mg/l 0.64 mg/l 1.3.4 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take pret	methylethyl) phosphat yl) ester nalation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw i dw i dw i dw i dw i dw i	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineed Use spark-/explosionpre from ignition sources/s	chloropropyl) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 leases) leases) t to ple it will be lis tion is a gener- to your identif ring controls oof appliances parks. Measur	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or: (2-chloropropy /alue ).64 mg/l ).51 mg/l ).064 mg/l 13.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soil 11.6 mg/kg for pplicable and em. Take precon in the air r	methylethyl) phosphat vl) ester halation ion irmal al methylethyl) phosphat vl) ester ediment dw ediment dw i	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect scenarios that correspond t 8.2.1 Appropriate engineed Use spark-/explosionpri from ignition sources/s 8.2.2 Individual protection	chloropropyl) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 leases) leases) t t int ble it will be lis tion is a gener- to your identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or: (2-chloropropy /alue ).64 mg/l ).51 mg/l ).064 mg/l 13.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soil 11.6 mg/kg for pplicable and em. Take precon in the air r otective equi	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-4 ester and phosphoric ad Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-4 ester and phosphoric ad compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineed Use spark-/explosionpre from ignition sources/s 8.2.2 Individual protection Observe very strict hygi	chloropropyl) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 leases) leases) t t int ble it will be lis tion is a gener- to your identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or: (2-chloropropy /alue ).64 mg/l ).51 mg/l ).064 mg/l 13.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soil 11.6 mg/kg for pplicable and em. Take precon in the air r otective equi	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric ac Effect level (DNEL/DI DNEL PNEC reaction mass of tris(2-i ester and phosphoric ac compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect scenarios that correspond t 8.2.1 Appropriate engineed Use spark-/explosionpri from ignition sources/s 8.2.2 Individual protection	chloropropyl) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 VIEL) cid, 2-chloro-1 leases) leases) t t int ble it will be lis tion is a gener- to your identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 C C C C C C C C C C C C C	is(2-chloro-1- 2-chloropropy ffects inhalat nic effects de ffects dermal nic effects de ffects dermal nic effects or: (2-chloropropy /alue ).64 mg/l ).51 mg/l ).064 mg/l 13.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soil 11.6 mg/kg for pplicable and em. Take precon in the air r otective equi	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-4 ester and phosphoric ad Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-4 ester and phosphoric ad compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availat 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineed Use spark-/explosionpre from ignition sources/s 8.2.2 Individual protection Observe very strict hygi	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond t 8.2.1 Appropriate engineei Use spark-/explosionpri from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection: Full face mask with filte	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine are sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineei Use spark-/explosionpri from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection:	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine are sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineer Use spark-/explosionpr from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection: Full face mask with filte b) Hand protection:	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid Rema	Remark	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond t 8.2.1 Appropriate engineei Use spark-/explosionpri from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection: Full face mask with filte	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid Rema enarios are attached in ostatic charges. Keep a Publication date: 2	Remark         y         y         y         , bis(2-chloro-1-meth         rk	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine are sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineer Use spark-/explosionpr from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection: Full face mask with filte b) Hand protection:	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid Rema	Remark         y         y         y         , bis(2-chloro-1-meth         rk	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine are sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineer Use spark-/explosionpr from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection: Full face mask with filte b) Hand protection:	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid Rema enarios are attached in ostatic charges. Keep a Publication date: 2	Remark         y         y         y         , bis(2-chloro-1-meth         rk	ylethyl) 2-chloro
reaction mass of tris(2-i ester and phosphoric are Effect level (DNEL/DI DNEL DNEL PNEC reaction mass of tris(2-i ester and phosphoric are compartments Fresh water Aqua (intermittent re Marine water STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment Marine are sediment Soil Oral 8.1.5 Control banding If applicable and availab 2. Exposure controls The information in this sect scenarios that correspond to 8.2.1 Appropriate engineer Use spark-/explosionpr from ignition sources/s 8.2.2 Individual protection Observe very strict hygi a) Respiratory protection: Full face mask with filte b) Hand protection:	chloropropyl) cid, 2-chloro-1 MEL) cid, 2-chloro-1 MEL) cid, 2-chloro-1 leases) leases) t to pour identif ring controls oof appliances parks. Measur measures, su	phosphate and tri -methylethyl bis(2 Type Long-term system Acute systemic ei Long-term system Acute systemic ei Long-term system phosphate and tri -methylethyl bis(2 0 0 0 0 0 0 0 0 0 0 0 0 0	is(2-chloro-1- 2-chloropropy nic effects inhalat nic effects dermal nic effects dermal nic effects dermal nic effects or: is(2-chloro-1- 2-chloropropy /alue 0.64 mg/l 0.51 mg/l 0.064 mg/l 1.3.4 mg/kg sei 1.34 mg/kg sei 1.34 mg/kg soi 1.1.6 mg/kg for pplicable and em. Take precon in the air r otective equi , drink or smc	methylethyl) phosphat yl) ester halation ion irmal al methylethyl) phosphat yl) ester ediment dw ediment dw i dw i dw ood i available, exposure so cautions against electro regularly. ipment	e and phosphoric acid Value 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day 0.52 mg/kg bw/da e and phosphoric acid Rema enarios are attached in ostatic charges. Keep a Publication date: 2	Remark	ylethyl) 2-chloro

Gloves. Materials	Breakthrough time	Thickness	
LDPE (Low Density Poly Ethylene)	> 10 minutes	0.025 mm	
) Eye protection:	r io minutes	0.020 mm	
Protective goggles.			
I) Skin protection:			
Head/neck protection. Protective clo	thing.		
3.2.3 Environmental exposure controls:	-		
See headings 6.2, 6.3 and 13			
ON 9: Physical and che	mical properties		
Information on basic physical			
Physical form	Aerosol		
Odour	Characteristic odour		
Odour threshold	No data available		
Colour	Variable in colour, depending on the o	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 Solubility	No data available Water ; insoluble		
Solubility	Organic solvents ; soluble		
Relative density	0.9 ; 20 °C		
Decomposition temperature	No data available		
Auto-ignition temperature	No data available		
Flash point	No data available		
Explosive properties	No chemical group associated with ex	plosive properties	
Oxidising properties	No chemical group associated with ox		
pH	No data available		
Other information			
Absolute density	963 kg/m <sup>3</sup> ; 20 °C		
ON 10: Stability and re	activity		

## 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) bases, amines.

#### 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

# SECTION 11: Toxicological information 11.1. Information on toxicological effects 11.1.1 Test results Acute toxicity Soudabond Easy No (test)data on the mixture available Classification is based on the relevant ingredients polymethylene polyphenyl isocyanate Route of exposure Parameter Method Value

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

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	EU Method B.1 tris	632 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 7 mg/l	4 h	Rat (male/female)	Experimental value	

#### Conclusion

Harmful if inhaled.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if swallowed

#### Corrosion/irritation

#### Soudabond Easy

No (test)data on the mixture available

Classification is based on the relevant ingredients

#### polymethylene polyphenyl isocyanate

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

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

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	OECD 405	24 h	7 days	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	7 days	Rabbit	Experimental value	

#### Conclusion

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

#### Respiratory or skin sensitisation

#### Soudabond Easy

No (test)data on the mixture available Classification is based on the relevant ingredients

Reason for revision: 2;3

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

	_						_			
polymethylene polyph				<b>F</b>	una dina a		Creatian	Nalua datam		Dement
Route of exposure	Result	Method		Exposu		bservation time pint	Species	Value detern	nination	Remark
	Sensitizin <mark>g;</mark> category 1							Literature stu	udy	
Inhalation	Sensitizing; category 1							Literature stu	ıdy	
reaction mass of tris(2		l) phosphate and	d tris(2-ch	loro-1-r	nethylethyl) pł	osphate and pho	l osphoric acid, bis(2	2-chloro-1-met	thvlethvl)	2-chloropropyl
ester and phosphoric										<u> </u>
Route of exposure	Result	Method		Exposu		bservation time bint	Species	Value detern	nination	Remark
Skin	Not sens <mark>itizin</mark>	g OECD 429					Mouse (female)	Experimental	l value	
Conclusion										
May cause an allergic May cause allergy or a Specific target organ toxici	asthma s <mark>ympt</mark>		g difficulti	ies if inł	naled.		1.1			
<u>Soudabond Easy</u> No (test)data on the mi	xture available	e								
Classification is based										
polymethylene polyph		-								
Route of exposure	e Parameter	Method	Value		Organ	Effect	Exposure time	Species		Value determination
Inhalation			STOT RE	cat.2				-		Literature study
reaction mass of tris(2						osphate and pho	osphoric acid, bis(2	2-chloro-1-met	thylethyl)	2-chloropropyl
ester and phosphoric			1	opropy	-	F	Free course of	<b>6</b>		
Route of exposure		Method	Value	,	Organ	Effect	Exposure time			Value determination
Oral (diet)	NOAEL	Subchronic toxicity test	171 mg, bw/day	-		No effect	13 weeks (daily		iale)	Experimental value
Oral (diet)	LOAEL	Subchronic toxicity test	52 mg/ł bw/day	٧g	Liver	Weight gain	13 weeks (daily	/) Rat (mal	e)	Experimental value
Inhalation (vapours)	Dose le <mark>vel</mark>		0.586 m	ng/lair		No effect		Mouse (i	male)	Experimental value
<b>/utagenicity (in vitro)</b> <u>Soudabond Easy</u> No (test)data on the n										
reaction mass of tris(2 ester and phosphoric						hosphate and pho	osphoric acid, bis(2	2-chloro-1-met	thylethyl)	2-chloropropyl
Result		/lethod			Test substrate	E	Effect	Va	alue dete	rmination
Negative with met activation, negativ	e without	DECD 482			Rat liver cells			Ex	periment	al value
metabolic activatio					Mouse (lymph	ama   5170V		<b>F</b>		
Negative without activation, positive metabolic activatio	e with	DECD 476			cells)	oma L5178Y		EX	periment	ai value
lutagenicity (in vivo)										
<u>Soudabond Easy</u> No (test)data on the n	nixture a <mark>vaila</mark> l	ble								
Judgement is based or										
reaction mass of tris(2	-chloropropy	I) phosphate and	d tris(2-ch	loro-1-r	nethylethyl) pł	osphate and pho	osphoric acid, bis(2	2-chloro-1-met	thylethyl)	2-chloropropyl
ester and phosphoric								/		
Result		Method		Expo	sure time	Test substra		gan		e determination
Negative		OECD 474	ļ			Mouse (ma	le/female) Bo	one marrow	Expe	erimental value
Conclusion Not classified for muta					_					
NOT CLASSIFIED TOF MUT	agenic o <mark>r geno</mark>	Stoxic toxicity								
	agenic or <mark>geno</mark>									
		·								
Carcinogenicity Soudabond Easy		·					Publication date: 2			
<mark>Soudabond Easy</mark> No (test)data on the n		·					Publication date: 2 Date of revision: 2			

ymethylene	polyphenyl isoc	<u>vanate</u>							
Route of	Parameter	Method	Value	Exposure ti	ime S	Species	Effect	Organ	Value
exposure									determinatio
Unknown			category 2						Literature stu
stion mass o	للمستعرك ملما مسمو	محمد المحمد المحمد	and tris(2-chloro-1-	(اربواط واربواط و معر	\ .	a and phacph	aria acid bic/2 ch	lara 1 mathulath	() 2 chloroprop
CLION MASS O	r tris(2-chioropr	opyl) phosphate	and tris(2-chiloro-1-	metnyletnyl)	) phosphate	e and phosphi	Sric acid, Dis(2-ci	loro-1-metnyletr	<u>iyi) z-cilioropropy</u>
			and thst2-chloroprop		) phosphate			loro-1-metriyieti	
						Species	Effect	Organ	Value
er and phosp	horic acid, 2-c <mark>h</mark>	loro-1-methylet	yl bis(2-chloroprop	yl) ester					
er and phosp Route of	horic acid, 2-c <mark>h</mark>	loro-1-methylet	yl bis(2-chloroprop	yl) ester					Value
er and phosp Route of exposure	horic acid, 2-c <mark>h</mark>	loro-1-methylet	yl bis(2-chloroprop	yl) ester					Value determinatio

Suspected of causing cancer.

#### Reproductive toxicity

#### Soudabond Easy

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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	Exposure time	Species	Effect	Organ	Value
								determination
Developmental toxicity	LOAEL	OECD 416	<mark>99 mg/</mark> kg		Rat (female)	Embryotoxicity		Experimental
			<mark>bw/da</mark> y					value
Effects on fertility	LOAEL	OECD 416	<mark>99 mg/</mark> kg		Rat	Weight changes	Female	Experimental
			<mark>bw/da</mark> y		(male/female)		reproductive	value
							organ	

#### Conclusion

Not classified for reprotoxic or developmental toxicity

#### Toxicity other effects

Soudabond Easy No (test)data on the mixture available

#### Chronic effects from short and long-term exposure

#### Soudabond Easy

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

#### Soudabond Easy

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 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

Reason for revision: 2;3

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

		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determi
Acute toxicity fishes		LC50	Other	56.2 mg/l	96 h		Static system		Experimental v
Acute toxicity crustace	ea	LC50		131 mg/l	48 h	rerio Daphnia magna	Static system	Fresh water	GLP Experimental v
Toxicity algae and othe plants	er aqu <mark>atic</mark>	ErC50	OECD 201	82 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Locomotor effe Experimental v GLP
Long-term toxicity fish	<u>,                                     </u>								Data waiving
Long-term toxicity aqu crustacea		NOEC	OECD 202	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental v GLP
Toxicity aquatic micro- organisms	-	EC50	ISO 8192	784 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental v GLP
Not classified as dangero 2.2. Persistence an polymethylene polyphen Biodegradation water Method	id degra	dability	Value	o the criteria of		c) No 1272/2008	Va	lue determina	ition
OECD 302C: Inheren		adability:	< 60 %				Ex	perimental val	ue
Modified MITI Test (									
eaction mass of tris(2-c						te and phosphoric a	cid, bis(2-chlo	ro-1-methylet	hyl) 2-chloropro
ester and phosphoric aci		ro-1-methyle	thyl bis(2-chlo	ropropyl) este	<u>r</u>				
Biodegradation water Method			Value		Durr	ation	1/2	lue determina	ition
OECD 301E: Modifie	d OFCD S	reening Too						perimental val	
Phototransformation			14 %, GLP		28 d	ay(s)	EX	perimental val	ue
Method		un)	Value		Con	c. OH-radicals	Va	lue determina	ition
AOPWIN v1.92			8.6 h			$\frac{1000}{\text{cm}^3}$	-	Iculated value	
Biodegradation soil			0.011		5000		Ca		
Method			Value		Dura	ation	Va	lue determina	ition
					2.010			ta waiving	
Half-life water (t1/2 w	vater)							.0	
Method	,		Value		Prim	nary radation/mineralisat		lue determina	ition
					Ű			perimental val	
EU Method C.7			> 1 year(s)		Plill	ary degradation			
Contains non readily bio 2.3. Bioaccumulativ dabond Easy					Print	ary degradation			
onclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow	ve pote	ntial		h	Print				
nclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow	ve pote	ntial	t(s)	Value	P*1111	Temperature		/alue determin	
nclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow	ve pote	ntial	t(s)	Value					
onclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method polymethylene polypher BCF fishes	ve pote	ntial mark t applicable nate	t(s) mixture)			Temperature		/alue determi	nation
nclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method Method BCF fishes Parameter	ve pote	ntial mark t applicable	t(s) mixture)	Value	Spe	Temperature ecies		Value determin	nation
Anclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method Method BCF fishes Parameter BCF	ve pote	ntial mark t applicable nate	t(s) mixture)		Spe	Temperature		Value determin	nation
Contains non readily bio Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method Dolymethylene polypher BCF fishes Parameter BCF Log Kow	ve pote	ntial mark t applicable nate Va 1	t(s) mixture)	Duration	Spe	Temperature ecies ces		Value determin Value d Literatu	nation etermination re study
Contains non readily bio Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method Method Dolymethylene polypher BCF fishes Parameter BCF	ve pote	ntial mark t applicable nate Va 1 Remark	t(s) mixture)		Spe	Temperature ecies		Value determin	nation etermination re study
Contains non readily bio Contains non readily bio 2.3. Bioaccumulative dabond Easy g Kow Method Dolymethylene polyphen BCF fishes Parameter BCF Log Kow Method	ve pote Rei No nyl isocya Method	ntial mark t applicable nate Va 1 Remark No data ava	t(s) mixture) ue	Duration	Spo Pis	Temperature ecies ces Temperature		Value determin Value d Literatu Value dete	nation etermination re study rmination
Anclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method Dolymethylene polypher BCF fishes Parameter BCF Log Kow Method Method Ecaction mass of tris(2-construction action action)	ve pote Rei No nyl isocya Method	ntial mark t applicable nate Va 1 Remark No data ava pyl) phospha	t(s) mixture) ue ilable e and tris(2-ch	Duration Value	Spa Pis ethyl) phospha	Temperature ecies ces Temperature		Value determin Value d Literatu Value dete	nation etermination re study rmination
nclusion Contains non readily bio 2.3. Bioaccumulativ dabond Easy g Kow Method Dolymethylene polyphen BCF fishes Parameter BCF Log Kow Method eaction mass of tris(2-cc ester and phosphoric act BCF fishes	Rei No nyl isocya Method	ntial mark t applicable nate 1 Remark No data ava pyl) phosphar ro-1-methyle	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo	Duration Value Noro-1-methyl ropropyl) este	Spa Pis ethyl) phospha r	Temperature ecies ces Temperature ate and phosphoric a		Value determin Value d Literatu Value dete ro-1-methylet	nation etermination re study rmination hyl) 2-chloropro
Anclusion Contains non readily bio 2.3. Bioaccumulative dabond Easy g Kow Method BCF fishes Parameter BCF Log Kow Method Method Ecaction mass of tris(2-constructions BCF fishes Parameter BCF fishes Parameter	ve pote Rei No nyl isocya Method	ntial mark t applicable nate 1 Remark No data ava pyl) phosphar ro-1-methyle	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo	Duration Value	Spa Pis ethyl) phospha r Spa	Temperature ecies ces Temperature		Value determin Value d Literatu Value dete ro-1-methylet	nation etermination re study rmination
Anclusion Contains non readily bio 2.3. Bioaccumulative dabond Easy g Kow Method BCF fishes Parameter BCF Log Kow Method Method Ecaction mass of tris(2-constructions BCF fishes Parameter BCF fishes Parameter	ve pote Rei No nyl isocya Method	ntial mark t applicable nate 1 Remark No data ava pyl) phosphar ro-1-methyle	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue	Duration Value Noro-1-methyl ropropyl) este	Spa Pis ethyl) phospha r Spa	Temperature ecies ces Temperature ate and phosphoric a ecies		Value determin Value d Literatu Value dete ro-1-methylet	nation etermination re study rmination hyl) 2-chloropro etermination
Anclusion Contains non readily bio 2.3. Bioaccumulative dabond Easy g Kow Method Dolymethylene polypher BCF fishes Parameter BCF Log Kow Method Ecaction mass of tris(2-construction mass of tris(2-construction) Expension of the second	ve pote Rei No nyl isocya Method	ntial mark t applicable nate 1 Remark No data ava pyl) phosphar ro-1-methyle	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue	Duration Value Noro-1-methyl ropropyl) este	Spa Pis ethyl) phospha r Spa	Temperature ecies ces Temperature ate and phosphoric a ecies		Value determin Value d Literatu Value dete ro-1-methylet	nation etermination re study rmination hyl) 2-chloropro etermination eetermination
Anclusion Contains non readily bio 2.3. Bioaccumulative dabond Easy g Kow Method Dolymethylene polypher BCF fishes Parameter BCF Log Kow Method Eaction mass of tris(2-construction mass of tris(2-construction) BCF fishes Parameter BCF fishes Parameter BCF Log Kow	ve pote Rei No nyl isocya Method	ntial mark t applicable nate Va 1 Remark No data ava yyl) phosphai ro-1-methyle Va 0.8	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue	Duration Value Noro-1-methyl ropropyl) este Duration 6 week(s)	Spa Pis ethyl) phospha r Spa	Temperature  ecies  ces  Temperature  ate and phosphoric a  ecies  prinus carpio		Value determin Value d Literatu Value dete ro-1-methylet Value d Experim	etermination re study rmination hyl) 2-chloropro etermination ental value rmination
Anclusion Contains non readily bio 2.3. Bioaccumulative dabond Easy g Kow Method BCF fishes Parameter BCF Log Kow Method Ecf fishes Parameter BCF fishes	ve pote Rei No nyl isocya Method 	ntial mark t applicable nate Va 1 Remark No data ava yyl) phosphai o-1-methyle 0.6 Remark	t(s) mixture) ue ilable e and tris(2-ch thyl bis(2-chlo ue - 14; Fresh	Duration Value Noro-1-methyl ropropyl) este Duration 6 week(s)	Spa Pis ethyl) phospha r Spa	Temperature  ecies  ces  Temperature  ate and phosphoric a  ecies prinus carpio  Temperature		Value determin Value d Literatu Value dete ro-1-methylet Value d Experim Value dete	etermination re study rmination hyl) 2-chloropro etermination ental value rmination

#### 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

(log) Koc								
Parameter			Ν	Vlethod		Value		Value determination
log Koc			E	EU Method C.1	9	2.76		Experimental value
Percent distribution								
Method	Fraction air	Fraction biota	Fraction	Fractio	on soil 🛛 🛛 Fra	action water	Value	determination
			sediment					
Mackay level I	0.01 %	0 %	3.55 %	3.52 %	92.	.89 %	Read-a	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

#### Soudabond Easy

#### 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)

Ozone-depieting 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	me		
Proper shipping name		Aerosols	
14.3. Transport hazard class	(es)		
Hazard identification nur	mber		
Class		2	
Classification code		5F	
14.4. Packing group			
Packing group			
Labels		2.1	
14.5. Environmental hazards	ŝ		
Environmentally hazardo	ous substance mark	no	
14.6. Special precautions for	user		
Special provisions		190	
Special provisions		327	
Special provisions		344	
Special provisions		625	
ason for revision: 2;3		Publication date: 2007-08-16	
		Date of revision: 2018-01-09	
vision number: 0403		Product number: 45261	11/15

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)
il (RID)		
14.1. UN number		
UN number		1950
14.2. UN proper shipping r	name	1550
Proper shipping name		Aerosols
14.3. Transport hazard cla		
Hazard identification n		23
Class		2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazar		
Environmentally hazar 14.6. Special precautions f		no
Special provisions	or user	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	J)	
14.1. UN number		hoto
UN number	22200	1950
14.2. UN proper shipping r Proper shipping name		Aerosols
14.3. Transport hazard cla		ACIOSOIS
Class	55(55)	2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazar	ds	
Environmentally hazar	dous substance mark	no
14.6. Special precautions f	or user	
Special provisions		190
Special provisions		327
Special provisions		344
Special provisions		625 Combination packagings: not more than 1 liter per inner packaging for
Limited quantities		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 r	name	
Proper shipping name		Aerosols
14.3. Transport hazard cla	ss(es)	
Class		2.1
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazar	as	
Marine pollutant	dous substance mark	
Environmentally hazar 14.6. Special precautions f		no
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

	5
14.7. Transport in bulk according to Annex II of Marpol and the	e IBC Code
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 na <mark>me</mark>	
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	no
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
Limited quantities: 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 dangerous substances, mixtures and articles

and use of certain da	iger ous	substances, mixtures and artic		
		Designation of the substance, of the substances or of the mixture	e group of	Conditions of restriction
<ul> <li>polymethylene polyphenyl isocyanat reaction mass of tris(2-chloropropy) phosphate and tris(2-chloro-1-methyl phosphate and phosphoric acid, bis(2 chloro-1-methylethyl) 2-chloropropyl and phosphoric acid, 2-chloro-1-meth bis(2-chloropropyl) ester</li> </ul>	te ) lethyl) - ester nylethyl	substances or of the mixture Liquid substances or mixtures which regarded as dangerous in accordanc Directive 1999/45/EC or are fulfilling criteria for any of the following haza or categories set out in Annex I to R (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and	n are ce with g the ard classes legulation d 2.7, 2.8 categories 2 types A to verse ity or on	<ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>tricks and jokes,</li> <li>games for one or more participants, or any article intended to be used as such, even wir ornamental aspects,</li> </ul> </li> <li>Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be placed on the market if they contain a colouring agent, unless required for</li> </ol>
· polymethylene polyphenyl isocyanal		Methylenediphenyl diisocyanate (N including the following specific isom Methylenediphenyl diisocyanate; 2, Methylenediphenyl diisocyanate; 2,	ners: 4,4'- ,4'-	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. <sup>4</sup> 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:
ison for revision: 2;3				Publication date: 2007-08-16
				Date of revision: 2018-01-09
ision number: 0403				Product number: 45261 13 / 15
				-, -

Soudabond Easy							
		Methylenediphenyl diisocyanate	<ul> <li>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;</li> <li>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:</li> <li>"- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</li> <li>Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</li> <li>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.</li> <li>By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.</li> </ul>				
<u>National legislation Belgium</u> <u>Soudabond Easy</u> No data available National legislation The Neth	nerland	s					
Soudabond Easy		_					
Waterbezwaarlijkheid <u>National legislation France</u> <u>Soudabond Easy</u> No data available <u>polymethylene polypheny</u>		z (2) anate					
Catégorie cancérogène		4,4'-Diisocyanate de diphényln	néthane; C2				
National legislation Germany Soudabond Easy WGK		1. Classification water pollution	g based on the components in compliance with Verwaltungsvorschrift wassergefährdender				
		Stoffe (VwVwS) of 27 July 2005 (AwSV) of 18 April 2017	5 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen				
polymethylene polypheny TA-Luft		<u>anate</u> 5.2.5; I					
TRGS900 - Risiko der Fruchtschädigung		4,4'-Methylendiphenyldiisocya und des biologischen Grenzwe	nat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes rtes nicht befürchtet zu werden Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des				
Sensibilisierende Stoffe		biologischen Grenzwertes nich 4,4'-Methylendiphenyldiisocya Zielorganen Allergien auslösen	it befürchtet zu werden inat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden ide				
TRGS905 - Krebserzeuge			Atemwegssensibilisierende Stoffe IDI) (in Form atembarer Aerosole, A-Fraktion); 2				
TRGS905 - Erbgutveränd TRGS905 - Fruchtbarkeitsgefährde	dernd	Techn. ("Polymeres") MDI (pM	DI) (in Form atembarer Aerosole, A-Fraktion); - DI) (in Form atembarer Aerosole, A-Fraktion); -				
	oropro	4,4'-Methylendiphenyldiisocya pMDI (als MDI berechnet); H; H pyl) phosphate and tris(2-chlor	Hautresorptiv ro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropy				
		pro-1-methylethyl bis(2-chlorog	propyl) ester				
TA-Luft		5.2.5					
<u>National legislation United K</u> <u>Soudabond Easy</u> No data available <u>polymethylene polypheny</u>							
Skin Sensitisation		Isocyanates, all (as -NCO) Exce					
Respiratory sensitisation Other relevant data Soudabond Easy No data available		Isocyanates, all (as -NCO) Exce	pt metnyi isocyanate; sen				
IARC - classification 15.2. Chemical safety asse		3; Polymethylene polyphenyl is	socyanate				
		as been conducted for the mix	xture.				
Reason for revision: 2;3			Publication date: 2007-08-16 Date of revision: 2018-01-09				
Revision number: 0403			Product number: 45261 14 / 15				

	50U	aabona	Easy	
SECTION 16: Othe	er information			
Full text of any H-stat H220 Extremely f H222 Extremely f H229 Pressurised H280 Contains g H302 Harmful if s H315 Causes skir H317 May cause H319 Causes seri H332 Harmful if i H334 May cause H315 Suspected	ements referred to under heading 3: lammable gas. lammable aerosol. container: May burst if heated. is under pressure; may explode if heated. wallowed. irritation. an allergic skin reaction. ous eye irritation. nhaled. allergy or asthma symptoms or breathing or respiratory irritation.			
(*) CLP (EU-GHS) DMEL DNEL EC50 ErC50 LC50 LC50 LD50 NOAEL NOEC OECD PBT PNEC STP vPvB Specific concentration	INTERNAL CLASSIFICATION BY BIG Classification, labelling and packaging Derived Minimal Effect Level Effect Concentration 50 % EC50 in terms of reduction of growth Lethal Concentration 50 % Lethal Dose 50 % No Observed Adverse Effect Level No Observed Effect Concentration Organisation for Economic Co-operat Persistent, Bioaccumulative & Toxic Predicted No Effect Concentration Sludge Treatment Process very Persistent & very Bioaccumulative	; (Globally Harmonis rate ion and Developmer	ed System in Europe)	
· .	lyphenyl isocyanate	C ≥ 5 %	Eye Irrit 2;H319	analogous to Annex VI
		C≥5%	Skin Irrit 2;H315	analogous to Annex VI

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.

Reason for revision: 2;3	Publication date: 2007-08-16 Date of revision: 2018-01-09