

# SAFETY DATA SHEET

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

# **Soudabond Easy Gun**

# 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 Gun : 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):

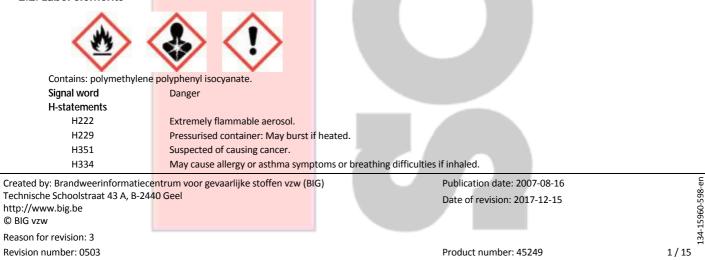
+32 14 58 45 45 (BIG)

## SECTION 2: Hazards identification

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

Classified as dar	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.	category 2	H351: Suspected of causing cancer.
Resp. Sens.	categ <mark>ory 1</mark>	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	categ <mark>ory 1</mark>	H317: May cause an allergic skin reaction.
Acute Tox.	categ <mark>ory 4</mark>	H332: Harmful if inhaled.
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	categ <mark>ory 3</mark>	H335: May cause respiratory irritation.

#### 2.2. Label elements



	5
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Supplemental informati	on second se
	- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

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

### 2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

Contains component(s) included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

# SECTION 3: Composition/information on ingredients

# 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No		CAS No EC No	Conc	. (C)	Classification according to CLP	Note	Remark
reaction mass of tris(2-chloropro tris(2-chloro-1-methylethyl) phos acid, bis(2-chloro-1-methylethyl) and phosphoric acid, 2-chloro-1-n chloropropyl) ester 01-2119486772-26	phate and phosphoric 2-chloropropyl ester		1%<0	C<25%	Acute Tox. 4; H302	(1)(10)	Constituent
polymethylene polyphenyl isocya	nate	9016-87-9	C>25		Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)(18)	Polymer
1,1-difluoroethane 01-2119474440-43		75-37-6 200-866-1	1%<0	C<10%	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(10)	Propellant
propane 01-2119486944-21		74-98-6 200-827-9	1%<0	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%<0	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%<0	C<10%	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%)							

(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

Reason for revision: 3

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### General:

If you feel unwell, seek medical advice.

#### After inhalation:

Remove the victim into f<mark>resh air. Respiratory problems: consult</mark> a doctor/medical service.

#### 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. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible inflammation of the respiratory tract. Risk of lung oedema. Respiratory difficulties.

After skin contact:

Tingling/irritation of the skin. After eye contact:

Irritation of the eye tissue. Lacrimation. After ingestion: Not applicable.

4.2.2 Delayed symptoms No effects known.

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

If applicable and available it will be listed below.

# SECTION 5: Firefighting measures

### 5.1. Extinguishing media

## 5.1.1 Suitable extinguishing media:

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

5.1.2 Unsuitable extinguishing media:

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

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

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrofluoric acid, 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 explosion proof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

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

See heading 8.2

## 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Reason for revision: 3

Publication date: 2007-08-16 Date of revision: 2017-12-15

Revision number: 0503

Product number: 45249

Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

### SECTION 7: Handling and storage

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

#### 7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. 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 applica	ble and available these will be listed below.	

EU			
Dimethylether		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m³
Belgium			
4,4'-Diisocyanate de dip	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)	ues sous forme gazeuse : (Alcanes C1-	Time-weighted average exposure limit 8 h	1000 ppm
Oxyde de diméthyle		Time-weighted average exposure limit 8 h	1000 ppm
		Time-weighted average exposure limit 8 h	1920 mg/m <sup>3</sup>
The Netherlands			· -
Dimethylether		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	496 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m³
		Short time value (Public occupational exposure limit value)	783 ppm
		Short time value (Public occupational exposure limit value)	1500 mg/m³
France			
4,4'-Diisocyanate de diph	nénylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.01 ppm
		Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/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			
4,4'-Methylendiphenyldi	isocyanat	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³
for revision: 3		Publication date: 2007-08-16	
011011011.3			
		Date of revision: 2017-12-15	

Time-weighted average exposure limit 8 h (TRGS 900)       1900         Isobutan       Time-weighted average exposure limit 8 h (TRGS 900)       1000         pMDI (als MDI berechnet)       Time-weighted average exposure limit 8 h (TRGS 900)       2400         Propan       Time-weighted average exposure limit 8 h (TRGS 900)       0.05         UK       Time-weighted average exposure limit 8 h (TRGS 900)       1000         Dimethyl ether       Time-weighted average exposure limit 8 h (Workplace exposure limit 8 h (Workplace exposure limit (EH40/2005))       400 p         Isocyanates, all (as -NCO)       Except methyl isocyanate       Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))       500 p         Isocyanates, all (as -NCO)       Except methyl isocyanate       Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))       500 p         USA (TLV-ACGIH)       Short time value (TLV - Adopted Value)       1000	u umothulothor				1			1000
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Time-weighted average exposure limits 8 (TRGS 900)         2400           Propan         Time-weighted average exposure limits 8 (TRGS 900)         1000           VK         Time-weighted average exposure limits 8 (TRGS 900)         1000           UK         Time-weighted average exposure limits 8 (TRGS 900)         1000           UK         Time-weighted average exposure limits 8 (TRGS 900)         1000           Dimethyl ether         Time-weighted average exposure limits 8 (TRGS 900)         1000           Dimethyl ether         Time-weighted average exposure limits 8 (TRGS 900)         1000           Dimethyl ether         Time-weighted average exposure limits 8 (TRGS 900)         1000           Diversition         Time-weighted average exposure limits 8 (TRGS 900)         1000           Diversition         Time-weighted average exposure limits 8 (TRGS 900)         1000           Diversition         Time-weighted average exposure limits 8 (TRGS 900)         1000           Diversition         Stort time value (Workplace exposure limit 8 (TRM VA2005))         1000           Diversition         Stort time value (Workplace exposure limit 8 (TRM VA2005))         1000           Diversition         Stort time value (Workplace exposure limit 8 (TRM VA2005))         1000           Diversition         Stort time value (Workplace exposure limit 8 (TRM VA2005))         1000	leabutar			e e e			,	1900 mg/m <sup>3</sup>
pND1 [dis MD] berechnet]         Time-weighted average exposure limit & In (TRGS 500)         0.05           Propan         Time-weighted average exposure limit & In (TRGS 500)         1000           UK         Time-weighted average exposure limit & In (TRGS 500)         1000           Dimethyl ether         Time-weighted average exposure limit & In (TRGS 500)         1000           UK         Time-weighted average exposure limit & In (TRGS 500)         1000           Dimethyl ether         Time-weighted average exposure limit & In (VarAplace exposure limit / (TRGS 500)         1000           UK         Time-weighted exposure limit (EM0/2005)         1000           Dimethyl ether         Time-weighted exposure limit & In (VarAplace exposure limit (EM0/2005))         1000           Discriptione         Short time-value (Workplace exposure limit (EM0/2005))         1000           Short time-value (Workplace exposure limit (EM0/2005))         1000         1000           Mitchal biological limit values         Short time value (Workplace exposure limit (EM0/2005))         1000           Short time value (Workplace exposure limit (EM0/2005))         1000         1000           Short time value (Workplace exposure limit (EM0/2005))         1000         1000           Short time value (Workplace exposure limit (EM0/2005))         1000         1000           Short time value (Workplace exposu	ISODULATI							1000 ppm 2400 mg/m <sup>3</sup>
Propan         Time-weighted average exposure limit 8 h (TRGS 900)         1000           UK         Time-weighted average exposure limit 8 h (TRGS 900)         1800           Dimethyl ether         Time-weighted average exposure limit 8 h (TRGS 900)         1800           Socyanates, all (as NO) Except methyl bocyanate         Time-weighted average exposure limit 8 h (Workplace exposure limit 16 HQ/2005))         500 f           Socyanates, all (as NO) Except methyl bocyanate         Time weighted average exposure limit (EH4Q/2005))         500 f           USA (TV-ACGH)         Socyanates, all (as NO) Except methyl bocyanate         Time weighted average exposure limit (EH4Q/2005))         500 f           USA (TV-ACGH)         Socyanates, all (as NO) Except methyl bocyanate         Time weighted average exposure limit (EH4Q/2005))         0.00           Methylene Explorate modes         Nort time value (MOH)         Time weighted average exposure limit (EH4Q/2005))         0.00           10 Astonal biological limit values         Motor time value (MU-Adapted Value)         0.00         0.00           11 Aspnzia limit values when using the substance or miniture as intended         Noto time value (Motor time value (Motor time value (Motor time)         0.00           12 Applicable and available these will be listed below.         1.10         Noto time value (Motor time)         0.00           13 Applicable and vavailable these will be listed below.         1.1	pMDI (als MDI herechnet	t)						0.05 mg/m <sup>3</sup>
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EH40/2005)         EH40/2005)         For time value (Workplace exposure limit 8 h (Workplace exposure limit 76 n (EH40/2005))           Socyanates, all (as. NCO) Except methyl isocyanate         Time value (Workplace exposure limit (EH40/2005))         50 r           Socyanates, all (as. NCO) Except methyl isocyanate         Time value (Workplace exposure limit 8 h (Workplace exposure limit (EH40/2005))         D07           USA (TUV-ACGH)         EH40/2005)         D07           Butane, all isomers         Short time value (Workplace exposure limit 8 h (TUV-Adopted Value)         D000           Methylene biophylic exapplicable and available these will be listed below.         3.0 r         3.0 r           3.1 2 Sampling methods         If est         Number         52.2 r           3.1 3 Applicable limit values         If on value (Workplace exposure limit 8 h (TUV-Adopted Value)         D.000           3.1 3 Applicable and available these will be listed below.         3.1 3 applicable and available these will be listed below.         3.1 3 applicable limit values when using the substance or mixture as intended         1 firmt value (REM/DIMEL - Vorters)           Freection mass of trisic chiropopoly phosphate and trisi2 chirors 1 methylethyl phosphate and phosphoric acid, bisi2 chirors 1 methylethyl star, and phosphoric acid, chiror - methylethyl bisi2 chirors 1 methylethyl phosphate and phosphoric acid, bisi2 chirors - methylethyl bisi2 chirors and phosphoric acid, bisi2 chirors - methylethyl bisi2 chirors rune wing/mi         Aute           PM				Time-weighter	average exposu	re limit 8 h (Workplac	e exposure limit	400 ppm
EH40/2005)         Morthlew Value (Workplace exposure limit (EH40/2005))         Socyanates, all (as-NCO) Except methyl isocyanate         Socyanates         End (Workplace exposure limit (EH40/2005))         Socyanates, all (as-NCO) Except methyl isocyanate         Control (EH40/2005))         Socyanates         Socyanates         End (Workplace exposure limit (EH40/2005))         Docyanates           USA (TLV-ACCIP)         Short time value (Workplace exposure limit (EH40/2005))         Docyanates	Dimetry ether				average expose		coposare inne	ioo ppin
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Socyanates, all (as-NCO) Except methyl isocyanate         Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))         D.02           USA (TU-ACCIH)         Difference								500 ppm
EH40/2005))         Dot           Short time value (Workplace exposure limit & (EH40/2005))         D.07           USA (TLV-ACCIH)         Dot           Butane, all isomers         Short time value (TLV - Adopted Value)         D.000           Distional biological limit values         Time-weighted average exposure limit & In (TLV - Adopted Value)         D.000           2.1 Sampling methods         Time-weighted average exposure limit & In (TLV - Adopted Value)         D.000           1.2 Sampling methods         Time weighted average exposure limit & In (TLV - Adopted Value)         D.000           3.1 Applicable limit values are applicable and available these will be listed below.         1.1         Size 2           3.1 Applicable limit values are applicable and available these will be listed below.         1.1         Size 2           3.1 Applicable limit values are applicable and available these will be listed below.         1.1         Size 2           3.1 Applicable limit values are applicable and available these will be listed below.         1.1         Size 2         Size 2           3.1 Applicable limit values are applicable and available these will be listed below.         1.1         Size 2         Size 2           3.1 Applicable limit values are applicable and available these will be listed below.         1.1         Size 2         Size 2           1.1 Opticybrol: acid, 2-biorozinewill bisize/biorozinewill belox.<	Isocyanates all (as -NCO)	Excent mot	thyl isocyanate					958 mg/m <sup>3</sup> 0.02 mg/m <sup>3</sup>
Short time value (Workplace exposure limit (EH40/2005))         D.07           USA (TLV-ACGH)         0000           Methods isomers         Short time value (TLV - Adopted Value)         0000           Methods isomers         Short time value (TLV - Adopted Value)         0.001           Di National biological limit values         1         1         0.001           Minit values are applicable and available these will be listed below.         1.1         5521           1.1 Samplicable limit values are applicable and available these will be listed below.         1.1         5521           1.1 Samplicable limit values are applicable and available these will be listed below.         1.1         522           1.1 A DNEL/PNEC values         MIOSH         5521           DNLI/DMEL - Workers         reaction mass of tris2-chloro-1-methylethyl biosphate and phosphoric acid, 2.1610-0-1-methylethyl ester and phosphoric acid, 2.1610-0         1.40           DNLI/DMEL - Workers         reaction mass of tris2-chloro-1 methylethyl biosphate and phosphoric acid, 2.1610-0         1.40           DNLL/DMEL - General population         5.32 mg/ml         Acute systemic effects demail         2.08 mg/ml           DNL/DMEL - General population         reaction mass of tris2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl ester and phosphoric acid, bis2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl phosphate and phosphoric	isocyanates, an (as -ivCO)	except met	any isocyanate		average exposu		e exposure iiiiil	0.02 mg/m
USA (TLV-ACGIH) Butane, all isomers Short time value (TLV - Adopted Value) 1000 Methylene bispheryl isozyanate (M0) Time-weighted average exposure limit 8 h (TLV - Adopted Value) 0.003 Ditational biological limit values If limit values If limit values are applicable and available these will be listed below. 1.2 Sampling methods Product name Fest NOSH 5522 N1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 DNEL/DNEL Vorkers Freation mass of tris2-chloroprophyl phosphate and tris2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl ester and phosphoric acid, chloro-1-methylethyl bis2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl ester and phosphoric acid, chloro-1-methylethyl bis2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl ester and phosphoric acid, chloro-1-methylethyl bis2-chloro-1-methylethyl ester and					ue (Workplace ex	posure limit (EH40/2	005))	0.07 mg/m <sup>3</sup>
But new, all isomers       Short time value (TV- Adopted Value)       [000         Methylene bisphenyl isocyanic (MDI)       Time weighted average exposure limit 8 h (TV- Adopted Value)       [0.03         D National biological limit values       If limit values are applicable and available these will be listed below.       1.23         12.3 sampling methods       Product name       Test       Number         Socyanates       NIOSH       5521         Socyanates       NIOSH       5522         13.3 Applicable limit values are applicable and available these will be listed below.       1.13         1.4 DNEL/DMEL       WOSH       5522         DNEL/DMEL       Work       5522         Socyanates       NIOSH       5522         1.4 DNEL/PMEC values       DNEL/DMEL       Work         DNEL/DMEL       Work is a strange of this 2-chloro-1-methylethyl bis 2-chloro-1-methylethyl phosphate and phosphoric acid, bis 2-chloro-1-methylethyl ester and phosphoric acid, bis 2-chloro-1-methylethyl ester and phosphoric acid, bis 2-chloro-1-methylethyl phosphate and phosphoric acid, bis 2-chloro-1-methylethyl ester and phosphoric acid, bis 2-chloro-1-methylethyl bis 2-chloro-1-methylethyl bis 2-chloro-1-methylethyl bis 2-chloro-1-methylethyl bis 2-chloro-1-methylethyl bis 2-chloro-1-methylethyl bis 2-chloro-1-met								
Methylene bispheryl isoryanate (MDI)         Time-weighted average exposure limit 8 h (TLV - Adopted Value)         D.005           DNational biological limit values         If limit values are applicable and available these will be listed below.         1.2 Sampling methods         Social and available these will be listed below.           1.3 Applicable limit values when using the substance or mixture as intended if limit values are applicable and available these will be listed below.         NOSH         5522           1.3 Applicable limit values when using the substance or mixture as intended if limit values of trials. Chloroon and trials and available these will be listed below.         1.1 2 Sampling methods         Social and available these will be listed below.           1.4 ONEL/PMCE         Value         Remark         Remark         Remark           DNEL/DMEL         Workers         Non-the substance or mixture as intended if limit values are applicable and available these will be listed below.         Social and available these will be listed below.           1.4 DMEL/PMCE         Workers         Remark         Remark           DNEL         Workers         Remark         Remark           DNEL/DMEL         Congreem systemic effects dermal         2.0 mg/kg bw/day         Acute systemic effects dermal         8 mg/kg bw/day         Acute systemic effects inhalation         1.4 mg/kg bw/day         Acute systemic effects dermal         1.0 mg/kg bw/day         Acute systemic effects dermal	· · · · ·			Chart time yel	10 (TI) ( Adopto			1000 mm
D) National biological limit values if limit values are applicable and available these will be listed below.       Number         12 Sampling methods       Test       Number         Socyanates       NIOSH       5521         Socyanates       NIOSH       5522         Socyanates       NIOSH       5522         13 Applicable limit values when using the substance or mixture as intended if mint values are applicable and available these will be listed below.       13         14 DNEL/PNEC values       DNEL/DNEL       Work         Socyanates       Vorkers       Value         Effect tevel (DNEL/DNEL)       Type       Value         Remark       DNEL       Long-term systemic effect inhalation       2.8 2 mg/m³         Long-term systemic effect inhalation       2.8 2 mg/m³       Long-term systemic effect inhalation         DNEL/DMEL - General population       reaction mass of tris2-chloro-netwhethy bis2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl sposhoric acid, bis2-chloro-1-methylethyl bis2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl bis2-chloro-1-methylethyl bis2-chloro-1-methylethyl phosphate and phosphoric acid, bis2-chloro-1-methylethyl bis2		wanate (MD	u)			,	nted Value)	1000 ppm 0.005 ppm
If limit values are applicable and available these will be listed below.          1.1 Sampling methods         Product name       Test       Number         Scorpantes       NIOSH       5521         Scorpantes       NIOSH       5522         1.1 3 Applicable limit values when using the substance or mixture as intended       filmit values are applicable and available these will be listed below.         1.1 3 Applicable limit values when using the substance or mixture as intended       filmit values are applicable and available these will be listed below.         1.1 3 Applicable Limit values when using the substance or mixture as intended       filmit values of tris2-chlorooropyl) phosphate and tris2-chloro-1-methylethyl phosphate and phosphoric acid, J-chloro-1-methylethyl bis2-chloropropyl ester         Effect Level (DNEL/DMEL)       Type       Value       Remark         DNEL/DMEL - General population       5.22 mg/m³       Acute systemic effects dermal       2.08 mg/kg bw/day         PNEL       Acute systemic effects inhalation       1.24 mg/m³       Acute systemic effects dermal       2.04 mg/m³         PNEL       Acute systemic effects inhalation       1.12 mg/m³       Acute systemic effects dermal       1.04 mg/kg bw/day         PNEC       Theston mass of tris2-chloropropyl phosphate and tris2-chloropropyl ester       Value       Remark         PNEC       Theston mass of tris2-chloropropyl phosphate and tris2-chloropropyl ester <td< td=""><td></td><td></td><td></td><td>inne-weightet</td><td>a average exposu</td><td></td><td></td><td>0.003 hhiii</td></td<>				inne-weightet	a average exposu			0.003 hhiii
I.1.2 Sampling methods       Intervent Section 2015         Product name       Intervent Section 2015         isocyanates       NIOSH         isocyanates       Size         13 Applicable limit values when using the substance or mixture as intended         if imit values are applicable and available these will be listed below.         14 ONEL/PRC values         DNEL/DMEL       Ung-term systemic effects inhalation         ister and phosphoric acid. Actions - methylethyl bis(2-chloro-1-methylethyl phosphate and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chloro-1-methylethyl phosphate and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chloro-1-methylethyl phosphate and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chlor			able these will be	listed below.				
Product name         Test         Number           Socyanates         NIOSH         5521           1.3 Applicable limit values when using the substance or mixture as intended         If imit values are applicable those will be listed below.           1.1 Applicable limit values when using the substance or mixture as intended         If imit values are applicable and available these will be listed below.           1.1 ONEL/PNEC values         DNEL/DMEL         Vorkers           Preaction mass of trist2-chloropropyl) phosphate and trist2-chloro-1-methylethyl listed below.         Value         Remark           DNEL/DMEL         More term systemic effects inhalation         5.82 mg/m³         Acute systemic effects dermal         2.08 mg/kg bw/day           DNEL/DMEL - General population         reaction mass of trist2-chlorophosphate and trist2-chlorophosphate and phosphoric acid, bis(2-chloro-1-methylethyl list2-chlorophosphate and phosphoric acid, bis(2-chloro-1-methylethyl beck admal         8 mg/kg bw/day           DNEL         Long-term systemic effects dermal         8 mg/kg bw/day         Acute systemic effects dermal         1.04 mg/m³           Effect level (DNEL/DMEL)         Long-term systemic effects admal         1.04 mg/m³         Acute systemic effects dermal         1.04 mg/m³           PNEC         reaction mass of trist2-chlorophosphate and trist2-chlorophosphate and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chlorophosphate)         1.04 mg/m³         Acute systemic effec			able these will be	isted below.				
Socyanates         NOSH         S521           Socyanates         NOSH         S522           13 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below.         11         NOEL/DEC values           DNEL/DMEL - Workers         reaction mass of tris/2-chloropropyl) phosphate and tris/2-chloro-1-methylethyl bis/2-chloropropyl ester         Value         Remark           Effect level (DNEL/DMEL)         Type         Value         Remark           DNEL/DMEL - General population         5.22 mg/m³         Acute systemic effects inhalation         5.22 mg/m³           reaction mass of tris/2-chloropropyl) phosphate and tris/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloropropyl phosphate and tris/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloropropyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloropropyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloropropyl phosphate and tris/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloropropyl phos				Test		Number		
If limit values are applicable and available these will be listed below.          8.1.4 DNEL/PNEC values         DNEL/DMEL - Workers         reaction mass of tris/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl) phosphate and phosphoric acid, bis/2-chloro-1-methylethyl ester and phosphoric acid, 2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, 2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl phosphate and tris/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chlo	Isocyanates			NIOSH		5522		
If limit values are applicable and available these will be listed below.          8.1.4 DNEL/PNEC values         DNEL/DMEL - Workers         reaction mass of tris/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl) phosphate and phosphoric acid, bis/2-chloro-1-methylethyl ester and phosphoric acid, 2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, 2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl phosphate and tris/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl bis/2-chlo	1.3 Applicable limit values	when using	the substance or	mixture as intended				
DNEL       Long-term systemic effects inhalation       5.82 mg/m³         Acute systemic effects inhalation       2.24 mg/m³         Long-term systemic effects inhalation       2.24 mg/m³         DNEL/DMEL - General population       2.08 mg/kg bw/day         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) site:       8 mg/kg bw/day         Effect level (DNEL/DMEL)       Type       Value       Remark         DNEL       Long-term systemic effects inhalation       11.2 mg/m³       Long-term systemic effects inhalation         DNEL       Long-term systemic effects inhalation       11.2 mg/m³       Long-term systemic effects inhalation       11.2 mg/m³         Long-term systemic effects dermal       1.04 mg/kg bw/day       Acute systemic effects dermal       0.52 mg/kg bw/day         PNEC       reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chloro-1-methylethyl bis(2-chloro-1-methylethyl bis(2-chloropropyl) ester       Compartments       Value       Remark         Fresh water       0.64 mg/l       1       Marine water       0.054 mg/l       1       1         STP       7.84 mg/l       1.34 mg/kg sediment dw       1.34 mg/kg sediment dw       1       1.34 mg/kg food       1.1.5 mg/kg soid dw       1 <th></th> <th></th> <th>1</th> <th>-chloropropyl) ester</th> <th>h</th> <th>Jaluo</th> <th>Domark</th> <th></th>			1	-chloropropyl) ester	h	Jaluo	Domark	
Acute systemic effects inhalation         22.4 mg/m³           Long-term systemic effects dermal         2.08 mg/kg bw/day           Acute systemic effects dermal         8 mg/kg bw/day           DNEL/DMEL - General population         8 mg/kg bw/day           reaction mass of tris(2-chloroporpoyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) ester and phosphoric acid, 2-chloro-1-methylethyl is(2-chloroporpoyl) ester           Effect level (DNEL/DMEL)         Type         Value         Remark           DNEL         Long-term systemic effects inhalation         11.4 mg/m³         Long-term systemic effects dermal           Long-term systemic effects dermal         0.40 mg/kg bw/day         Long-term systemic effects dermal         0.40 mg/kg bw/day           PNEC         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chloropropyl) ester         Compartments         Value         Remark           Compartments         Value         Remark         Marine water         0.64 mg/l         Acute systemic effects are and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chloropropyl) ester           Compartments         Value         Remark         Fresh water         0.64 mg/l         Acute systemic effects are and phosphoric acid, bis(2-chloro-1-methylethyl bis(2-chloropropyl) ester         Strip 7 .84 mg/l         Tresh water sedime		)		nic effects inhalation			Nerridik	
Long-term systemic effects dermal         2.08 mg/kg bw/day           DNEL/DMEL - General population         8 mg/kg bw/day           reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) sizer           Effect level (DNEL/DMEL)         Type           Value         Remark           DNEL         Long-term systemic effects inhalation         1.46 mg/m³           Acute systemic effects inhalation         1.12 mg/m³         Income term systemic effects dermal           Acute systemic effects dermal         1.04 mg/kg bw/day         Income term systemic effects dermal           Acute systemic effects oral         0.52 mg/kg bw/day         Income term systemic effects and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)           PNEC         reaction mass of tris(2-chlorop-1-methylethyl bis(2-chloropropyl) encomptor acid, bis(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)         Income terms systemic effects and tris(2-chloro-1-methylethyl)           ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) encomptor acid, bis(2-chloro-1-methylethyl)         Income terms systemic effects and terms encompton acid, bis(2-chloro-1-methylethyl)           ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloro-1-methylethyl)         Income terms encompton acid, bis(2-chloro-1-methylethyl)           ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloro-1-methylethyl	[					0.82 (1)g/11		
Acute systemic effects dermal         B mg/kg bw/day           DNEL/DMEL - General population         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)           ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester         Value         Remark           DNEL         Long-term systemic effects inhalation         1.46 mg/m³         Acute systemic effects dermal         1.04 mg/kg bw/day           Acute systemic effects dermal         1.04 mg/kg bw/day         Acute systemic effects dermal         0.52 mg/kg bw/day           PNEC         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)         star mg/kg bw/day           PNEC         comg-term systemic effects oral         0.52 mg/kg bw/day         Pheter           reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)         star mg/kg bw/day         Pheter           reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)         star mg/kg bw/day         Pheter           reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl)         phosphoric acid, bis(2-chloro-1-methylethyl)         star mg/kg bw/day         Pheter           compartments         Value         Remark <td></td> <td></td> <td>Acute systemic ef</td> <td></td> <td></td> <td></td> <td></td> <td></td>			Acute systemic ef					
reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, J2-chloro-1-methylethyl bis(2-chloropropyl) ester           Effect level (DNEL/DMEL)         Type         Value         Remark           DNEL         Long-term systemic effects inhalation         1.1.2 mg/m³         Acute systemic effects dermal         1.04 mg/kg bw/day           Acute systemic effects dermal         0.52 mg/kg bw/day         Acute systemic effects dermal         0.52 mg/kg bw/day           PNEC         cong-term systemic effects or al         0.52 mg/kg bw/day         Endettermetry           reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) ester and phosphoric acid, bis(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) ester           Compartments         Value         Remark           Fresh water         0.64 mg/l         Aqua (intermittent releases)         0.51 mg/l           Marine water         0.64 mg/l         Intermittent releases)         Intermittent releases           STP         7.84 mg/l         Intermittent releases         Intermittent releases           Soil         1.7 mg/kg soil dw         Intermittent releases         Intermittent releases           Soil         1.7 mg/kg soil dw         Intermittent releases         Intermittent release           Soil         1.7 mg/kg soil				fects inhalation		22.4 mg/m <sup>3</sup>		
ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester         Effect level (DNEL/DMEL)       Type       Value       Remark         DNEL       Long-term systemic effects inhalation       1.46 mg/m³       Image: Colspan="2">Colspan="2"      Colspan="2"      Colspan="2"			Long-term system	fects inhalation nic effects dermal		22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day		
Effect level (DNEL/DMEL)       Type       Value       Remark         DNEL       Long-term systemic effects inhalation       1.46 mg/m³       Acute systemic effects inhalation       11.2 mg/m³         Long-term systemic effects inhalation       1.04 mg/kg bw/day       Acute systemic effects dermal       1.04 mg/kg bw/day         PNEC       Acute systemic effects dermal       4 mg/kg bw/day       Acute systemic effects dermal       0.52 mg/kg bw/day         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester       Compartments       Value       Remark         Fresh water       0.64 mg/l       Aqua (intermittent releases)       0.51 mg/l       Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l       STP       7.84 mg/l       STP       7.84 mg/l         Fresh water sediment       1.34 mg/kg sediment dw       Still       1.7 mg/kg soil dw       Still         Oral       1.16 mg/kg food       11.6 mg/kg food       Still       Still       Still       Still         Acture systemic effects dermal       1.46 mg/kg solid w       Still       Stil			Long-term system Acute systemic ef	fects inhalation hic effects dermal fects dermal		22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day		
DNEL       Long-term systemic effects inhalation       1.46 mg/m³         Acute systemic effects dermal       1.04 mg/kg bw/day         Acute systemic effects dermal       4 mg/kg bw/day         Acute systemic effects dermal       4 mg/kg bw/day         Acute systemic effects dermal       0.52 mg/kg bw/day         PNEC       reaction mass of tris(2-chloro-1-methylethyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloroporyl) ester         Compartments       Value       Remark         Fresh water       0.64 mg/l       1.34 mg/kg sediment dw         Aqua (intermittent releases)       0.51 mg/l       1.34 mg/kg sediment dw         Marine water       0.064 mg/l       51 mg/l       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw       1.34 mg/kg sediment dw       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw       1.6 mg/kg food       1.6 mg/kg food         1.1.5 control banding       If applicable and available, exposure scenarios are attached in annex. Always use the relecenarios that correspond to your identified use.       1.6 mg/kg food         2.1.5 Control banding       Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head         Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges	reaction mass of tris(2-ch	loropropyl)	Long-term system Acute systemic ef	fects inhalation nic effects dermal fects dermal s(2-chloro-1-methyleth		22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day	s(2-chloro-1-meth	ylethyl) 2-chlor
Acute systemic effects inhalation       11.2 mg/m³         Long-term systemic effects dermal       1.04 mg/kg bw/day         Acute systemic effects dermal       4 mg/kg bw/day         Acute systemic effects oral       0.52 mg/kg bw/day         Image: term systemic effects oral       0.52 mg/kg bw/day         PNEC       Image: term systemic effects oral         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) seter         Compartments       Value         Remark       Fresh water         Fresh water       0.64 mg/l         Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l         STP       7.84 mg/l         Fresh water sediment       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw         Oral       11.6 mg/kg food         soil       1.7 mg/kg food         soil       1.6 mg/kg food         stort or third or this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relecenarios that correspond to your identified use.         2.1 Appropriate engineering controls       Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head	reaction mass of tris(2-ch ester and phosphoric acid	loropropyl) d, 2-chloro-1	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2	fects inhalation nic effects dermal fects dermal s(2-chloro-1-methyleth	ıyl) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day nd phosphoric acid, bi		ylethyl) 2-chlor
Acute systemic effects dermal       4 mg/kg bw/day         Long-term systemic effects oral       0.52 mg/kg bw/day         PNEC       PNEC         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chlorop-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)         compartments       Value         Fresh water       0.64 mg/l         Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l         STP       7.84 mg/l         Fresh water sediment       1.34 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw         Oral       11.6 mg/kg food         St. Scontrol banding       If applicable and available, exposure scenarios are attached in annex. Always use the relectorarist that correspond to your identified use.         8.1.1 Appropriate engineering controls       Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI	loropropyl) d, 2-chloro-1	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type	fects inhalation nic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester	ıyl) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day nd phosphoric acid, bi <b>/alu</b> e		ylethyl) 2-chlor
Long-term systemic effects oral       0.52 mg/kg bw/day         PNEC       reaction mass of tris[2-chloropropy]) phosphate and tris[2-chlorop-1-methylethyl) phosphate and phosphoric acid, bis[2-chloro-1-methylethyl bis[2-chloropropy]) ester         Compartments       Value         Remark       Remark         Fresh water       0.64 mg/l         Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l         STP       7.84 mg/l         Fresh water sediment       1.34 mg/kg sediment dw         Marine water sediment       1.34 mg/kg soli dw         Oral       1.7 mg/kg soli dw         Oral       11.6 mg/kg food         8.1.5 Control banding       If applicable and available it will be listed below.         Exposure controls	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI	loropropyl) d, 2-chloro-1	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef	fects inhalation ic effects dermal fects dermal (2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation	ivl) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day d phosphoric acid, bi <b>/alue</b> 1.46 mg/m <sup>3</sup>		ylethyl) 2-chlor
PNEC         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) ester         Compartments       Value       Remark         Fresh water       0.64 mg/l       Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l       STP       T.84 mg/l         Fresh water sediment       13.4 mg/kg sediment dw       Soll       0.7 mg/kg soli dw         Oral       1.7 mg/kg soli dw       0.7 mg/kg food       Str.       Str.         Soll       0.7 mg/kg food       11.6 mg/kg food       Str.       Str.         And in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relected area of the oppliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI	loropropyl) d, 2-chloro-1	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal	ivl) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day d phosphoric acid, bi <b>/alue</b> 1.46 mg/m <sup>3</sup> 11.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day		ylethyl) 2-chlor
reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl)         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloropropyl) ester       Remark         Compartments       Value       Remark         Fresh water       0.64 mg/l       Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l       Image: Colspan="2">Compartments         Fresh water       0.64 mg/l       Image: Colspan="2">Compartments         Aqua (intermittent releases)       0.51 mg/l       Image: Colspan="2">Compartments         Marine water       0.064 mg/l       Image: Colspan="2">Compartments         STP       7.84 mg/l       Image: Colspan="2">Compartments         Marine water sediment       1.34 mg/kg sediment dw       Image: Colspan="2">Compartments         Marine water sediment       1.34 mg/kg sediment dw       Image: Colspan="2">Compartments         State       1.7 mg/kg soil dw       Image: Colspan="2">Compartments         Oral       11.6 mg/kg food       Ima	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI	loropropyl) d, 2-chloro-1	Long-term system Acute systemic ef -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal fects dermal	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day d phosphoric acid, bi <b>/alue</b> 1.46 mg/m <sup>3</sup> 1.1.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day		ylethyl) 2-chlor
ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester         Compartments       Value       Remark         Fresh water       0.64 mg/l       Image: Step Step Step Step Step Step Step Step	reaction mass of tris(2-ch ester and phosphoric acic Effect level (DNEL/DMI DNEL	loropropyl) d, 2-chloro-1	Long-term system Acute systemic ef -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal fects dermal	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day d phosphoric acid, bi <b>/alue</b> 1.46 mg/m <sup>3</sup> 1.1.2 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day		ylethyl) 2-chlor
Compartments       Value       Remark         Fresh water       0.64 mg/l       Aqua (intermittent releases)       0.51 mg/l         Aqua (intermittent releases)       0.51 mg/l       Image: Compartment of the second sec	reaction mass of tris(2-ch ester and phosphoric acic Effect level (DNEL/DMI DNEL PNEC	iloropropyl) d <u>, 2-chloro-1</u> EL)	Long-term system Acute systemic ef -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal fects dermal nic effects oral	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi <b>/alue</b> 1.46 mg/m <sup>3</sup> 1.02 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day	Remark	
Aqua (intermittent releases)       0.51 mg/l         Marine water       0.064 mg/l         STP       7.84 mg/l         Fresh water sediment       13.4 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw         Oral       11.6 mg/kg food         It applicable and available it will be listed below.       Exposure controls         he information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relecenarios that correspond to your identified use.         .2.1 Appropriate engineering controls       Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL <u>PNEC</u> reaction mass of tris(2-ch	iloropropyl) d, <u>2-chloro-1</u> EL)	Long-term system Acute systemic ef -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system phosphate and tris	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal fects dermal nic effects oral s(2-chloro-1-methyleth	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi <b>/alue</b> 1.46 mg/m <sup>3</sup> 1.02 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day	Remark	
Marine water       0.064 mg/l         STP       7.84 mg/l         Fresh water sediment       13.4 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw         Oral       11.6 mg/kg food         State       11.6 mg/kg food         State       State         Exposure controls       Image: State         The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relecenarios that correspond to your identified use.         State       State         State       State         We spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid	iloropropyl) d, <u>2-chloro-1</u> EL)	Long-term system Acute systemic ef -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system phosphate and tris -methylethyl bis(2	fects inhalation ic effects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal fects dermal nic effects oral s(2-chloro-1-methyleth -chloropropyl) ester	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi Value 1.46 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day ad phosphoric acid, bi	Remark	
STP       7.84 mg/l         Fresh water sediment       13.4 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw         Oral       11.6 mg/kg food         St.1.5 Control banding       If applicable and available it will be listed below.         Exposure controls	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments	iloropropyl) d, <u>2-chloro-1</u> EL)	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system phosphate and tris -methylethyl bis(2 0	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation nic effects dermal fects dermal nic effects oral s(2-chloro-1-methyleth -chloropropyl) ester 'alue .64 mg/l	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi Value 1.46 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day ad phosphoric acid, bi	Remark	
Fresh water sediment       13.4 mg/kg sediment dw         Marine water sediment       1.34 mg/kg sediment dw         Soil       1.7 mg/kg soil dw         Oral       1.7 mg/kg soil dw         Oral       11.6 mg/kg food         .1.5 Control banding If applicable and available it will be listed below.       Exposure controls         he information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relecenarios that correspond to your identified use.         .2.1 Appropriate engineering controls       Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele	iloropropyl) d, 2-chloro-1 EL) iloropropyl) d, 2-chloro-1	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system phosphate and tris -methylethyl bis(2 0 0	fects inhalation ic effects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation ic effects dermal fects dermal is effects oral s(2-chloro-1-methyleth -chloropropyl) ester 'alue .64 mg/l .51 mg/l	ivi) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi Value 1.46 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day ad phosphoric acid, bi	Remark	
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<ul> <li>1.5 Control banding         If applicable and available it will be listed below.     </li> <li>Exposure controls         the information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relected cenarios that correspond to your identified use.     </li> <li>2.1 Appropriate engineering controls         Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/head     </li> </ul>	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment	Iloropropyl) d, 2-chloro-1 EL) d, 2-chloro-1 d, 2-chloro-1 ases)	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system phosphate and tris -methylethyl bis(2 0 0 0 7 1 1	fects inhalation ic effects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation fic effects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester 'alue .64 mg/l .51 mg/l .064 mg/l .84 mg/l .84 mg/l 3.4 mg/kg sediment dw	ıyl) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi Value 1.46 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day ad phosphoric acid, bi	Remark	
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<ul> <li>Exposure controls</li> <li>The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relected are an available and available, exposure scenarios are attached in annex. Always use the relected are an available and available, exposure scenarios are attached in annex. Always use the relected are an available and available and available are associated are attached in annex. Always use the relected are associated a</li></ul>	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Soil Oral	Iloropropyl) d, 2-chloro-1 EL) d, 2-chloro-1 d, 2-chloro-1 ases)	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system phosphate and tris -methylethyl bis(2 0 0 0 0 1 1 1 1	fects inhalation ic effects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation fects inhalation fic effects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester 'alue .64 mg/l .51 mg/l .064 mg/l .84 mg/l 3.4 mg/kg sediment dw .7 mg/kg sediment dw	ıyl) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day ad phosphoric acid, bi Value 1.46 mg/m <sup>3</sup> 1.04 mg/kg bw/day 4 mg/kg bw/day 0.52 mg/kg bw/day ad phosphoric acid, bi	Remark	
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3.2.1 Appropriate engineering controls Use spark-/explosionproo <mark>f appliances and lighting system. Take</mark> precautions against electrostatic charges. Keep away from naked flames/hea	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Soil Oral 1.5 Control banding If applicable and available Exposure controls	Iloropropyl) d, 2-chloro-1 EL) Iloropropyl) d, 2-chloro-1 iases) t t e it will be lis	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute acute Acute acute Acute Acute acute Acute acute Acute acute Acute acu	fects inhalation ic effects dermal fects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester ic effects inhalation fic effects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester falue .64 mg/l .51 mg/l .064 mg/l .84 mg/l 3.4 mg/kg sediment dw .7 mg/kg soil dw 1.6 mg/kg food	IVI) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 mg/m <sup>3</sup> 1.04 mg/m <sup>3</sup> 1.04 mg/kg bw/day 5.52 mg/kg bw/day 1.052 mg/kg bw/day 1.04 mg/kg bw/day	Remark	ıylethyl) 2-chlor
Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/hea	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 1.5 Control banding If applicable and available Exposure controls	Iloropropyl) d, 2-chloro-1 EL) Iloropropyl) d, 2-chloro-1 Iloropropyl) d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloro-1 Iloropropyl d, 2-chloropropyl d, 2	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system Phosphate and tris -methylethyl bis(2 V 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fects inhalation ic effects dermal fects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester ic effects inhalation fic effects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester falue .64 mg/l .51 mg/l .064 mg/l .84 mg/l 3.4 mg/kg sediment dw .7 mg/kg soil dw 1.6 mg/kg food	IVI) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 mg/m <sup>3</sup> 1.04 mg/m <sup>3</sup> 1.04 mg/kg bw/day 5.52 mg/kg bw/day 1.052 mg/kg bw/day 1.04 mg/kg bw/day	Remark	ıylethyl) 2-chlor
	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Soil Oral 1.5 Control banding If applicable and available Exposure controls the information in this sectic	Iloropropyl) d, 2-chloro-1 EL) Iloropropyl) d, 2-chloro-1 ases) t t e it will be lis pon is a genera your identif	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system Acute systemic ef Long-term system Phosphate and tris -methylethyl bis(2 V 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	fects inhalation ic effects dermal fects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester ic effects inhalation fic effects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester falue .64 mg/l .51 mg/l .064 mg/l .84 mg/l 3.4 mg/kg sediment dw .7 mg/kg soil dw 1.6 mg/kg food	IVI) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 mg/m <sup>3</sup> 1.04 mg/m <sup>3</sup> 1.04 mg/kg bw/day 5.52 mg/kg bw/day 1.052 mg/kg bw/day 1.04 mg/kg bw/day	Remark	ıylethyl) 2-chlor
	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Soil Oral 1.5 Control banding If applicable and available Exposure controls that correspond to 2.1 Appropriate engineerin	Iloropropyl) d, 2-chloro-1 EL) Iloropropyl) d, 2-chloro-1 Iloropropyl) d, 2-chloro-1 Iloropropyl d, 2-chloropropyl d, 2-c	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute sy	fects inhalation ic effects dermal fects dermal fects dermal fects dermal s(2-chloro-1-methyleth -chloropropyl) ester nic effects inhalation nic effects dermal fects dermal fects dermal nic effects oral s(2-chloro-1-methyleth -chloropropyl) ester falue .64 mg/l .51 mg/l .064 mg/l .84 mg/l .3.4 mg/kg sediment dw .7 mg/kg sediment dw 1.6 mg/kg food pplicable and available,	v(I) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 mg/m <sup>3</sup> 1.04 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day 1.052 mg/kg bw/day	Remark	ylethyl) 2-chlor
	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Soil Oral 1.5 Control banding If applicable and available Exposure controls the information in this sectic enarios that correspond to 2.1 Appropriate engineerin Use spark-/explosionproc	Iloropropyl) d, 2-chloro-1 EL) Iloropropyl) d, 2-chloro-1 ases) t t e it will be lis pon is a genera your identif ng controls of appliances	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute system Acute systemi	fects inhalation ic effects dermal fects dermal fects dermal fects dermal fects inhalation fects inhalation fects inhalation fic effects dermal fects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester falue .64 mg/l .51 mg/l .064 mg/l .84 mg/l .3.4 mg/kg sediment dw .34 mg/kg sediment dw .34 mg/kg soil dw 1.6 mg/kg food pplicable and available, m. Take precautions a	v(I) phosphate ar	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 mg/m <sup>3</sup> 1.04 mg/m <sup>3</sup> 1.04 mg/kg bw/day 0.52 mg/kg bw/day 1.052 mg/kg bw/day	Remark	ylethyl) 2-chlor
for revision: 3 Publication date: 2007-08-16 Date of revision: 2017-12-15	reaction mass of tris(2-ch ester and phosphoric acid Effect level (DNEL/DMI DNEL DNEL PNEC reaction mass of tris(2-ch ester and phosphoric acid Compartments Fresh water Aqua (intermittent rele Marine water STP Fresh water sediment Marine water sediment Marine water sediment Soil Oral 1.5 Control banding If applicable and available Exposure controls the information in this sectic enarios that correspond to 2.1 Appropriate engineerin Use spark-/explosionproc from ignition sources/spa	Iloropropyl) d, 2-chloro-1 EL) Iloropropyl) d, 2-chloro-1 ases) t t e it will be lis pon is a genera your identif ng controls of appliances	Long-term system Acute systemic ef phosphate and tris -methylethyl bis(2 Type Long-term system Acute systemic ef Long-term system Acute system Acute systemi	fects inhalation ic effects dermal fects dermal fects dermal fects dermal fects inhalation fects inhalation fects inhalation fic effects dermal fects dermal fects dermal fic effects oral s(2-chloro-1-methyleth -chloropropyl) ester falue .64 mg/l .51 mg/l .064 mg/l .84 mg/l .3.4 mg/kg sediment dw .34 mg/kg sediment dw .34 mg/kg soil dw 1.6 mg/kg food pplicable and available, m. Take precautions a	v(I) phosphate ar         v(I) phosphate ar <t< td=""><td>22.4 mg/m<sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 d phosphoric acid, bi 1.46 mg/m<sup>3</sup> 1.04 mg/kg bw/day 1.04 mg/kg bw/day 0.52 mg/kg bw/day 1.052 mg/kg bw/day 1.04 mg/kg bw/day 1.0</td><td>Remark</td><td>ylethyl) 2-chlor</td></t<>	22.4 mg/m <sup>3</sup> 2.08 mg/kg bw/day 3 mg/kg bw/day 3 mg/kg bw/day 4 d phosphoric acid, bi 1.46 mg/m <sup>3</sup> 1.04 mg/kg bw/day 1.04 mg/kg bw/day 0.52 mg/kg bw/day 1.052 mg/kg bw/day 1.04 mg/kg bw/day 1.0	Remark	ylethyl) 2-chlor

	Sc	oudat	ond Easy (	Gun		
8.2.2 Individual protection	measures, such as person	al protective	equipment			
Observe very strict hygie	ene - avoid contact. Do no					
a) Respiratory protection:	r type A at conc. in air > ex	nocuro limit				
b) Hand protection:	r type A at conc. In air > ex	posure inflit.				
Gloves.						
Materials		Breakthroug			Thickness	
LDPE (Low Density Poly c) Eye protection:	Ethylene)	> 10 minute	S	C	).025 mm	
Protective goggles.						
d) Skin protection:						
Head/neck protection. F 8.2.3 Environmental expose						
See headings 6.2, 6.3 an						
CTION Or Dhusiash						
ECTION 9: Physical	and chemical p	roperti	es			
9.1. Information on basi	c physical and chemi	cal prope	rties			
Physical form Odour		erosol	odour			
Odour Odour threshold		haracteristic Io data availa				
Colour			our, depending on the comp	position		
Particle size		lot applicable				
Explosion limits Flammability		lo data availa xtremely flar	nmable aerosol.			
Log Kow		lot applicable				
Dynamic viscosity		lo data availa				
Kinematic viscosity Melting point		lo data availa lo data availa		-		
Boiling point		lo data availa				
Flash point		lo data availa				
Evaporation rate Relative vapour density		lo data availa 1	ible			
Vapour pressure		Io data availa	ble			
Solubility		Vater ; insolu				
Relative density		organic solver .0;20°C	nts ; soluble			
Decomposition tempera		lo data availa	ble			
Auto-ignition temperatu		lo data availa				
Explosive properties Oxidising properties		5	roup associated with explos roup associated with oxidisi			
pH		lo data availa		ing properties		
9.2. Other information				1		
Absolute density	1	040 kg/m³ ; 2	20 °C	_		
· · · · ·						
ECTION 10: Stability	and reactivity					
10.1. Reactivity						
May be ignited by spark	s. Gas/vapour spreads at f	loor level: igr	nition hazard.			
10.2. Chemical stability						
Stable under normal cor	nditions.					
10.3. Possibility of hazar	dous reactions					
		ng) bases and	d amines. Reacts violently wi	ith (some) acids	s/bases.	
10.4. Conditions to avoid	d					
Precautionary measures						
Use spark-/explosionpro from ignition sources/sp		system. Take	e precautions against electro	ostatic charges.	Keep away from naked flames/heat. Kee	ep away
10.5. Incompatible mate						
(strong) acids, (strong) b						
10.6. Hazardous decomp						
			igen cyanide). On burning: re nonoxide - carbon dioxide).	elease of toxic a	and corrosive gases/vapours (phosphorus	s oxides,
Reason for revision: 3				Publication	date: 2007-08-16	
				Date of revi	sion: 2017-12-15	

Revision	number.	0503

# SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

11.1.1 Test results

#### Acute toxicity

#### Soudabond Easy Gun

No (test)data on the mixture available Classification 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

Route of exposure	Param	neter	Method	Value	Exposure time	Species	Value	Remark
							determination	
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	

### polymethylene polyphenyl isocyanate

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

#### Conclusion

Harmful if inhaled.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if swallowed

#### Corrosion/irritation

Soudabond Easy Gun

No (test)data on the mixture available

Classification 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

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	

polymethylene polyphenyl isocyanate

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

### Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

#### Respiratory or skin sensitisation

#### Soudabond Easy Gun

No (test)data on the mixture available

Classification 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

	Route of exposure	Result		Method	Exposu	Observation time point	Species	Value determination	Remark
	Skin	Not sensit	izing	OECD 429			Mouse (female)	Experimental value	
Reason	for revision: 3					Р	ublication date: 20	07-08-16	
						D	ate of revision: 20	17-12-15	

May cause an allergic skin reaction. May cause all				Journa		Lasy O	AT 1		
Bit     Sensitiving     Image: Control of the sensitivity       Bit     Sensitivity     Literature study     Literature study       Decision     Sensitivity     Literature study     Literature study						-1			
Implation       Interview 1       Implation       Interview 1         Implation       Interview 1       Implation       Interview 1         Mary cause allege calling			Method	Expo	sure time		•		Remark
Initiation       Sensitiving:       Initiation       Interactive study       Interactive study         Oraclustion       May cause an allergic kin reaction.       May cause an allergic kin reaction.       Interactive study         May cause an allergic kin reaction.       May cause an allergic kin reaction.       Interactive study         Interactive study       Interactive study       Interactive study       Interactive study         Inter	Skin	-						Literature study	
and Listom	Inhalation	Sensitizin <mark>g;</mark>						Literature study	
May cause allergy or action asymptoms or breathing difficulties if inhaled.	Conclusion								
In farget organizations based on the relevant ingredients: Tester and a base horize wellable Use Station on the relevant ingredients Tester and a base horize and a base horiz	, ,								
addbord face Cub       10 (test) data on the mixture available         Construction is based on the relevant ingredients         reaction mass of trid2-chinoratory) absolute and trid2-chinors the test of the test of exposure framework ingredients         Construction is added on the relevant ingredients         Construction is based on the relevant ingredients	May cause allergy or a	asthma sympt	oms or breathir	ng difficulties if i	haled.				
la desiduation on the mature available (astification is based on the relevant ingredients) reaction mass of trisfic chlorocaroom) phosphate and trisfic chloroc - methydethyl biophote and phosphote call, biolic chloroc - methydethyl biolic polle of exposure Parameter Method Value Organ Ffoct Support in Parameter Method Value Stor Ffoct Support in Parameter Support in Parameter Method Value Stor Ffoct Support in Parameter Method Value Stor Ffoct Support in Parameter Support in Parameter Method Stor Ffort Support in Parameter Support in Pa	cific target organ toxici	ity							
Classification is based on the relevant ingredients i reaction mass of trials 2-chloron-onethylethyl biols/2-chlorononyl ester and and booshoric acid. 2-chloron-methylethyl biols/2-chlorononyl ester Paulie of exposure Parameter Method Value Organ Pfett Papsare time Papeales (daily) at tenale Dail diett Note: the biological of the second Parameter Nethod Value Destination of the second Papeales (daily) at tenale is province in a papeales of the second Papeales (daily) at tenale is province in a papeales (daily) at tenale is province in a papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province in the second Papeales (daily) at tenale is province is province in the second Papeales (daily) at tenales	udabond Easy Gun								
reaction mass of LeG2-chicorecore() and trig2-chicors_methyle/thig2-biogenetic cold. bil22-chicors_1-methyle/thig2-chicorson() ester active and phosphotics cold, 2-chicors_methyle/thig2-chicorson() ester Total e di exposure Parameter Method Value Organ Fifect Paposure time Decision () aut (female) Experimental oral (dist) OAEL Subchronic () 75 mg/kg I viver Weight gain 133 weeks (daily) Pat (female) Experimental oral (dist) OAEL Subchronic () 75 mg/kg I viver Weight gain 133 weeks (daily) Pat (fmale) Experimental phalation Dose level I vive Viday Viday Viday Viday Viday Viday Vidae ()									
enter and hosphoric acid. 2-chloro-1-methydethyl bis/2-chloro-promoti enter Porte of exposure Parameter Method Alue Organ Pffect Sposure line Species Control Species Species Control Species Species Control			0	du da (Du da la cara		N . I I I		alle and a sub-lath	N <b>2</b> . I. I
Route of exposure         Parameter         Method         Value         Organ         Effect         Exposure time         Species         Value           Oral (diet)         NOAEL         Subdronic         171 mg/kg         No effect         13 weeks (daily)         Rat (female)         Experimental value           Oral (diet)         LOAEL         Subdronic         25 mg/kg         lver         Weight gain         13 weeks (daily)         Rat (female)         Experimental value           Inhalation         Dose level         D.3.586 mg/l air         No effect         Image         Mouse (male)         Experimental value           Inhalation         Dose level         D.3.586 mg/l air         No effect         Exposure time         Species         Value           Inhalation         Dose level         Method         Value         Organ         Effect         Exposure time         Species         Value           Inhalation         Dose level         Method         Value         Exposure time         Species         Value           Inhalation         Dose first subtronic         Species         Value         Species         Value           Boult of exposure         Material value         Species         Value         Species         Value						I) phosphate and pho	osphoric acid, bis(2-	-chioro-1-methylethy	I) 2-chloroprop
Oral (diet)     NOAEL     Subchronic     171 mg/kg     No effect     13 weeks (daily)     Rat (female)     Copermentatives       Oral (diet)     LOAEL     Subchronic     52 mg/kg     Liver     Weight gain     13 weeks (daily)     Rat (male)     Experimenta value       mhalation     Dose level     D.586 mg/Lair     No effect     Mouse (male)     Experimenta value       momentivene polymemul (solvanate)     D.586 mg/Lair     No effect     Proposure time     Species     Value       momentivene polymemul (solvanate)     Organ     Effect     Experimenta value     Value     Value     Value     Value     Value     No effect     No effect     Value     Value     Value     Value     Value     Value     No effect     No effect     Value     Value     Value     Value     Value     Value     Value     No effect     No effect     Value     Value <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>Effect</td> <td>Exposure time</td> <td>Species</td> <td></td>					-	Effect	Exposure time	Species	
Image:		NOAS	C. haharan'a	474					determinatio
Oral (diet)     OAEL     Subchronic     SD mg/ng     Veer     Weight gain     13 weeks (daily)     Rat (male)     Experimental value       Imitation     Jose level     0.586 mg/l air     No effect     Mouse (male)     Experimental value       000     methodice desposure Parameter     Method     Value     Organ     Effect     Exposure time     Species     Value       000     methodice desposure Parameter     Method     Value     Organ     Effect     Exposure time     Species     Value       001     minutation     Image of the species     Value     Organ     Effect     Exposure time     Species     Value       002     motidation     STOT RE call     Image of the species     Value     Value     Image of the species     Value       003     motidation     STOT RE call     Image of the species     Value     Image of the species     Value       004     transition     Stot Call State     Effect     Experimental value     Image of the species     Value       016     test value     Test substrate     Effect     Value determination     State value       020     test value     Test substrate     Effect     Value determination     State value       021     test value     Test value real valu	Oral (diet)	NOAEL		0. 0		No effect	13 weeks (dally)	Rat (female)	
Instantion         Dose level         0.586 mg/l air         No effect         Mouse (male)         poperimenta (alue)           columethylene polyphenyl locyanate         Roule of exposure Parameter         Method         Value         Organ         Effect         Exposure time         Species         Value (determination inhalation           modulate         Organ         Effect         Exposure time         Species         Value (determination inhalation           Most classified as sub-chronical toxic in contact with skin Not classified as sub-chronical toxic chronogroph) phosphate and tris(2-chloro 1-methylethyl) phosphate and phosphoric acid, bis(2-chloro 1-methylethyl) 2-chlorogroph ester and phosphoric acid 2-chloro 1-methylethyl bis(2-chloro 1-methylethyl) 2-chlorogroph ester and phosphoric acid 2-chloro 1-methylethyl bis(2-chloro 1-methylethyl) 2-chlorogroph ester and phosphoric acid 2-chlorophylethyl bis(2-chloro 1-methylethyl) 2-chlorophylethylethylethylethylethylethylethylet	Oral (diet)	LOAEL	Subchronic	52 mg/kg	Liver	Weight gain	13 weeks (daily)	Rat (male)	Experimental
with the second seco		- · · ·	toxicity test	-					_
Bookmethylene polyphend lacyyanate         Organ         Effect         Exposure lime         Species         Value           Route of exposure         Parameter         Method         Value         Organ         Effect         Exposure time         Species         Value           unclusion         inhalation         istromate         Value		Dose level		0.586 mg/l ai	r	No effect		Mouse (male)	
Image in the induction     STOT RE cat.2     Image in the induce is a sub-chronical toxic in contact with skin.       Not classified as sub-chronically toxic if swallowed     agenicity (in vitro)       udable day Gun     Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified as sub-chronical toxic in contact with skin.       Not (tassified in the miture available       Independent is based on the relevant ingredients       reaction is based on the relevant ingredients       reactin mass o		henyl isocyana	ate						, and c
Imbation       STOT RE cat.2       Interature stinct         Structure stinct       Structure stinct       Interature stinct         Way cause damage to organs through prolonged or repeated exposure if inhaled.       Not classified as sub-chronically toxic in contact with skin         Not classified as sub-chronically toxic in contact with skin       Not classified as sub-chronically toxic if swallowed         agenicity (in vitro)       Interaction mass of trig2-chloropropyl phosphate and tris[2-chloropropyl ester       Interaction mass of trig2-chloropropyl ester         Result       Method       Test substrate       Effect       Value determination         Ne (test)data on the mixture available       Test substrate       Effect       Value determination         Result       Method       Test substrate       Effect       Value determination         Negative without metabolic activation       OECD 492       Test substrate       Effect       Value determination         Negative without metabolic activation       OECD 476       Mouse (lymphoma L5178Y       Experimental value         addoond Easy Gun       No (test)data on the mixture available       No (test)data on the mixture available       Experimental value         Judgement is based on the relevant ingredients       Fest Substrate       Organ       Value determination         No (test)data on the mixture available       OECD 474<	Route of exposure	e Parameter	Method	Value	Organ	Effect	Exposure time	Species	
onclusion May cause damage to organs through prolonged or repeated exposure if inhaled. Not classified as sub-chronically toxic in contact with skin Not classified as sub-chronically toxic in swalloble         reaction mass of tris/2-chlorop-in-methylethyl bis/2-chloroporon/ ester are and phosphoric acid, 2-bit or - in-methylethyl bis/2-chloroporon/ ester activation, negative within metabolic activation, negative within metabolic activation, positive with metabolic activation       QECD 482       Rat liver cells       Effect       Value determination         Negative with metabolic activation, negative without metabolic activation, positive with metabolic activation       QECD 476       Mouse (lymphoma L5178Y       Experimental value         addend Easy Gun No (test)clata on the mixture available Judgement is based on the relevant ingredients reaction mass of tris/2-chloropropyl phosphate and tris/2-chloropropyl ester       Test substrate	Inhalation			STOT PE cot 2			-		
May case damage to organs through prolonged or repeated exposure if inhaled.         Not classified as sub-chronically toxic in contact with skin         Not classified as sub-chronically toxic in contact with skin         Not classified as sub-chronically toxic in contact with skin         Not classified as sub-chronically toxic in contact with skin         Not classified as sub-chronically toxic in contact with skin         Not classified as sub-chronically toxic in svaliable         reaction mass of trisi2-chloror-1-methylethyl bis/2-chloro-1-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl 2-chloroprogrester         Result       Method         Test substrate       Effect         Value determination       Experimental value         activation, negative without       GED 482         Negative without metabolic       OECD 476         Mouse (lymphoma L5178Y       Experimental value         activation, positive with       CED 476         Mouse (lymphoma L5178Y       Experimental value         activation, positive with       Method         Lodgement is based on the mixture available       Judgement is based on the mixture available         Judgement is based on the relevant ingredients       Experimental value         rest and phosphoric acid, c-chloro-1-methylethyl bis/2-chloro-2-methylethyl phosphate and phosphoric acid, bis/2-chloro-1-methylethyl 2-chloropromiter				STOT NE Cat.2				_	Literature stu
ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester       Effect       Value determination         Result       Method       Test substrate       Effect       Value determination         Aresult       OECD 482       Bat liver cells       Experimental value       Experimental value         Metabolic activation       Method       Mouse (lymphoma L5178Y       Experimental value         activation, positive with       OECD 476       Mouse (lymphoma L5178Y       Experimental value         advisation       OECD 476       Mouse (lymphoma L5178Y       Experimental value         Judgement is based on the mixture available       Judgement is based on the relevant ingredients       Sone marrow       Experimental value         indication       OECD 474       Mouse (male/female)       Bone marrow       Experimental value         indication       OECD 474       Mouse (male/female)       Bone marrow       Experimental value	No (test)data on the r								
Result     Method     Test substrate     Effect     Value determination       Negative with metabolic activation, negative without metabolic activation     OECD 492     Rat liver cells     Experimental value       Negative without metabolic activation, positive with metabolic activation     OECD 476     Mouse (lymphoma L5178Y     Experimental value       adjustive without metabolic activation     OECD 476     Mouse (lymphoma L5178Y     Experimental value       adjustive without metabolic activation     OECD 476     Mouse (lymphoma L5178Y     Experimental value       adjustive without metabolic activation     Experimental value     Experimental value       adjustive in without metabolic activation     Result     Method     Experimental value       udgement is based on the relevant ingredients     Experimental value     Result     Method     Exposure time       Result     Method     Exposure time     Test substrate     Organ     Value determina       Negative     OECD 474     Mouse (male/female)     Bone marrow     Experimental value       Ornclusion     No classified for mutagenic or genotoxic toxicity     Mouse (male/female)     Bone marrow     Experimental value       No (test)data on the mixture available     Classification is based on the relevant ingredients     Publication date: 2007-08-16     Date of revision: 2017-12-15						I) phosphate and pho	osphoric acid, bis(2-	-chloro-1-methylethy	I) 2-chloroprop
activation, negative without       Activation       Activation       Activation       Experimental value         Negative without metabolic activation       OECD 476       Mouse (lymphoma L5178Y       Experimental value         agenicity (in vivo)       Udabond Easy Gun       No (test)data on the mixture available       Judement is based on the relevant ingredients         reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloropropyl) ester       Experimental value       Activation         reaction mass of tris(2-chlorop-1-methylethyl) bic/2-chloropropyl) ester       Method       Exposure time       Test substrate       Organ       Value determina         No (test)data on the mixture available       OECD 474       Mouse (male/female)       Bone marrow       Experimental value         Not classified for mutagenic or genotoxic toxicity       Inogenicity       Value determina       Value determina         No (test)data on the mixture available       Classification is based on the relevant ingredients       Feature       Publication date: 2007-08-16         On for revision: 3       Publication date: 2007-08-16       Date of revision: 2017-12-15       Intervision: 2017-12-15						rate	Effect	Value det	ermination
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activation, positive with metabolic activation       cells)         agenicity (in vivo)         udabond Easy Gun         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         Result       Method       Exposure time       Test substrate       Organ       Value determina         Negative       OECD 474       Mouse (male/female)       Bone marrow       Experimental value         conclusion       Not classified for mutagenic or genotoxic toxicity       Mouse (male/female)       Bone marrow       Experimental value         Not (test)data on the mixture available       Classification is based on the relevant ingredients       Publication date: 2007-08-16       Date of revision: 2017-12-15	, 0								
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Result       Method       Exposure time       Test substrate       Organ       Value determina         Negative       OECD 474       Mouse (male/female)       Bone marrow       Experimental value         conclusion         Not classified for mutagenic or genotoxic toxicity       inogenicity       Value determina         udabond Easy Gun       No (test)data on the mixture available       Classification is based on the relevant ingredients       Publication date: 2007-08-16         on for revision: 3       Publication date: 2017-12-15       Publication: 2017-12-15						I) phosphate and pho	osphoric acid, bis(2-	-chloro-1-methylethy	I) 2-chloropropy
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exposure Inhalation Dermal Oral polymethylene polypho	enyl isocy	Method	Value		Exposur	e une S	pecies	Effect	Organ	Value
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exposure Unknown onclusion Suspected of causing ca	imeter	Method	Value		Fundation	a tima S		<b>Effoot</b>	Orgon	Value
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reaction mass of tris(2- ester and phosphoric a						nyi) phosphate	and phosphoric	acid, bis(2-chioro	<u>p-1-metnyletnyl</u>	) 2-chloropropy
			Method	Value		Exposure time	e Species	Effect	Organ	Value determinatio
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2.1. Toxicity					ness. Itch	ing. Skin rash/i	inflammation. M	ay stain the skin.	Dry skin. Cough	ning. Possible
2.1. Toxicity Idabond Easy Gun o (test)data on the mix	kture avai	able	nation	5.	ness. Itch	ing. Skin rash/i	inflammation. M	ay stain the skin.	Dry skin. Cough	ning. Possible
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2.1. Toxicity <u>udabond Easy Gun</u> Io (test)data on the mix udgement of the mixtur <u>reaction mass of tris(2-</u>	cture avai re is base -chloropro	able d on the relev opyl) phospha oro-1-methyl	rant ingredient ant and tris(2-cc ethyl bis(2-chlo	5 5 10ro-1-r 0ropropy	nethyletl I) ester	hyl) phosphate Duration	and phosphoric	acid, bis(2-chloro	-1-methylethyl Fresh/salt V water Fresh water E	) 2-chloropropy alue determina
2.1. Toxicity Idabond Easy Gun o (test)data on the mix Idgement of the mixtur reaction mass of tris(2- ester and phosphoric a	cture avail re is base -chloropro acid, 2-chl	able d on the relev opy() phospha oro-1-methyl Parameter	rant ingredient ate and tris(2-ci ethyl bis(2-chlo Method	5 nloro-1-r propropy Value 56.2 131 r	nethyleti I) ester e mg/I ng/I	hyl) phosphate Duration 96 h 48 h	and phosphoric Species Brachydanio rerio Daphnia magna	acid, bis(2-chloro Test design Static system Static system	o-1-methylethyl Fresh/salt V vater Fresh water E G Fresh water E Lu	) 2-chloropropy alue determina xperimental val LP xperimental val
2.1. Toxicity idabond Easy Gun o (test)data on the mixur reaction mass of tris(2- ester and phosphoric a Acute toxicity fishes Acute toxicity crustad Toxicity algae and oth plants	cture avai re is base -chloropro acid, 2-chl cea	able d on the relev ppyl) phospha oro-1-methyl Parameter LC50 LC50	rant ingredient ate and tris(2-ci ethyl bis(2-chlo Method	sindoro-1-r propropy Value 56.2	nethyleti I) ester e mg/I ng/I	hyl) phosphate Duration 96 h	and phosphoric Species Brachydanio rerio Daphnia magna	acid, bis(2-chloro Test design Static system	-1-methylethyl Fresh/salt V vater E Fresh water E G Fresh water E Lu Fresh water E	) 2-chloropropy alue determina xperimental val LP xperimental val ocomotor effec
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oolymethylene polypł	Paramete	er Method	Value	Duration	Species	Test design		Value determir
			1000 //				water	
Acute toxicity other organisms	aquatic LC50		> 1000 mg/l	96 h				Literature study
Toxicity aquatic mic organisms	ro- EC50	OECD 209	> 100 mg/l		Activated sludge			Literature study
nclusion	arous for the environm	agent according to	the criteria of I	Pogulation (E(	C) No 1272/2008			
-	erous for the environr	nent according to	o the criteria of i	Regulation (EC	.) NO 1272/2008			
	and degradability							
	<u>2-chloropropyl) phosp</u> acid, 2-chloro-1-meth			thyl) phospha	te and phosphoric a	acid, bis(2-ch	loro-1-methyle	thyl) 2-chloroprop
Biodegradation wat		· · · · · · · · · ·						
Method		Value		Dura	tion	١	/alue determin	ation
	fied OECD Screening T	est 14 %; GLP		28 da	ay(s)	E	Experimental va	alue
Phototransformatic	on air (D <mark>T50 air)</mark>	Volue		Con			lalua datarmin	ation
Method		Value	_		: OH-radicals		/alue determin	
AOPWIN v1.92 Biodegradation soil		8.6 h		5000	000 /cm <sup>3</sup>	(	Calculated value	8
Method		Value		Dura	tion	<u> </u>	/alue determin	ation
Method		Value	_	Dura	lion		Data waiving	
Half-life water (t1/2	2 water)			1				
Method		Value		Prim			/alue determin	ation
					adation/mineralisa			
EU Method C.7		> 1 year(s)		Prim	ary degradation	E	Experimental va	alue
olymethylene polyph								
Biodegradation wat	ter	Value		Dura	tion		lalua datarmin	ation
	ent Biod <mark>egradability:</mark>	Value < 60 %		Duia			/alue determin Experimental va	
Modified MITI Tes	• ·	< 00 %						alue
2.3. Bioaccumula dabond Easy Gun g Kow	itive po <mark>tential</mark>			Ξ.		_		
dabond Easy Gun <b>g Kow</b>	tive pot <mark>ential Remark</mark>		Value		Temperature		Value determ	ination
dabond Easy Gun g Kow Vlethod	Remark			Ē				
dabond Easy Gun g Kow Method reaction mass of tris(2	Remark Not applicab	nate and tris(2-ch	loro-1-methyle	thyl) phospha		acid, bis(2-ch		
dabond Easy Gun g Kow Method reaction mass of tris(2 ester and phosphoric	Remark	nate and tris(2-ch	loro-1-methyle	thyl) phospha		acid, bis(2-ch		
dabond Easy Gun g Kow Method reaction mass of tris(2 ester and phosphoric BCF fishes	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth	nate and tris(2-ch ylethyl bis(2-chlo	loro-1-methyle		te and phosphoric a	acid, bis(2-ch	loro-1-methyle	thyl) 2-chloroprop
dabond Easy Gun g Kow Method reaction mass of tris(2 ester and phosphoric	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth Method	nate and tris(2-ch	loro-1-methyle	Spe		acid, bis(2-ch	loro-1-methyle	
dabond Easy Gun g Kow Method reaction mass of tris(2 ester and phosphoric BCF fishes Parameter	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth Method	hate and tris(2-ch ylethyl bis(2-chlo Value	loro-1-methyle ropropyl) ester Duration	Spe	te and phosphoric a	acid, bis(2-ch	loro-1-methyle	thyl) 2-chloroprop determination
dabond Easy Gun g Kow Method eaction mass of tris(2 ester and phosphoric BCF fishes Parameter BCF Log Kow Method	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth Method	hate and tris(2-ch ylethyl bis(2-chlo Value	loro-1-methyle ropropyl) ester Duration	Spe	te and phosphoric a		loro-1-methyle Value ( Experin	thyl) 2-chloroprop determination
dabond Easy Gun g Kow Method eaction mass of tris(2 ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth Method OECD 305 Remark	hate and tris(2-ch ylethyl bis(2-chlo Value	loro-1-methyle ropropyl) ester Duration 6 week(s)	Spe	te and phosphoric a ecies prinus carpio		loro-1-methyle Value ( Experin	thyl) 2-chloroprop determination mental value ermination
dabond Easy Gun g Kow Method eaction mass of tris(2 ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 polymethylene polyph	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth Method OECD 305 Remark	hate and tris(2-ch ylethyl bis(2-chlo Value	Duration 6 week(s)	Spe	te and phosphoric a ecies prinus carpio		loro-1-methyle Value Experin Value dete	thyl) 2-chloroprop determination mental value ermination
dabond Easy Gun g Kow Method eaction mass of tris(2 ester and phosphoric BCF fishes Parameter BCF Log Kow Method EU Method A.8 polymethylene polyph BCF fishes	Remark Not applicab 2-chloropropyl) phosp acid, 2-chloro-1-meth Method OECD 305 Remark henyl isocyanate	hate and tris(2-ch ylethyl bis(2-chlo Value D.8 - 14; Fresh	Duration 6 week(s) Value 2.68	Sре Суг	te and phosphoric a ecies prinus carpio Temperature 30 °C		loro-1-methyle Value ( Experin Value deto Experimer	thyl) 2-chloroprop determination mental value ermination ntal value
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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

og) Koc									
Parameter				Method			Value		Value determination
log Koc				EU Meth	od C.19		2.76		Experimental value
ercent distribution									
Method	Fraction air	Fraction biota	Fraction		Fraction soil	Fraction	water Val	ue determ	ination
			sedimen	t					
Mackay level I	0.01 %	0 %	3.55 %		3.52 %	92.89 %	Rea	d-across	
	og) Koc Parameter log Koc ercent distribution Method Mackay level I	Parameter log Koc ercent distribution Method Fraction air	Parameter log Koc ercent distribution Method Fraction air Fraction biota	Parameter log Koc ercent distribution Method Fraction air Fraction biota Fraction sedimen	Parameter Method log Koc EU Method ercent distribution Fraction air Fraction biota Fraction Method Fraction air sediment	Parameter Method log Koc EU Method C.19 ercent distribution Method Fraction air Fraction biota Fraction sediment Fraction sediment	Parameter     Method       log Koc     EU Method C.19       ercent distribution     EU Method C.19       Method     Fraction air       Fraction biota     Fraction soil       Fraction soil     Fraction soil	Parameter     Method     Value       log Koc     EU Method C.19     2.76       ercent distribution     EU Method C.19     2.76       Method     Fraction air     Fraction biota sediment     Fraction soil     Fraction water     Value	Parameter     Method     Value       log Koc     EU Method C.19     2.76       ercent distribution     EU Method C.19     2.76       Method     Fraction air     Fraction biota     Fraction soil     Fraction water     Value determ

#### **Conclusion**

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

#### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

Soudabond Easy Gun

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Contains component(s) included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

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

### SECTION 13: Disposal considerations

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

#### 13.1. Waste treatment methods

13.1.1 Provisions relating to waste

#### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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

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

16 05 04\* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

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

#### 13.1.3 Packaging/Container

**European Union** 

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## **SECTION 14: Transport information**

Road (ADR)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping na <mark>me</mark>	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Rail (RID)	
ason for revision: 3	Publication date: 2007-08-16
	Date of revision: 2017-12-15

14.1. UN nur	mber	
UN num		1950
		1550
	oper shipping na <mark>me</mark>	A
	hipping name	Aerosols
	ort hazard class(es)	
Hazard id	dentification number	23
Class		2
Classifica	ation code	5F
14.4. Packing	g group	
Packing §		
Labels	<u></u>	2.1
1	nmental hazards	
	mentally hazardous substance mark	no
	l precautions for <mark>user</mark>	
	provisions	190
	provisions	327
Special p	provisions	344
Special p	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)
	rways (ADN)	
14.1. UN nur	mber	
UN num	ber	1950
	oper shipping name	
	hipping name	Aerosols
		Aelosois
	ort hazard class(es)	i
Class		2
1	ation code	5F
14.4. Packing	g group	
Packing §	group	
Labels		2.1
14.5. Enviror	nmental hazards	
Environr	nentally hazardo <mark>us substance mark</mark>	no
	l precautions for user	
	provisions	190
		327
	provisions	
<u> </u>	provisions	344
	provisions	625
Limited o	quantities	Combination packagings: not more than 1 liter per inner packaging for
		liquids. A package shall not weigh more than 30 kg. (gross mass)
a (IMDG/I	MSBC)	
•		
14.1. UN nur		
UN num		1950
	oper shipping na <mark>me</mark>	
Proper s	hipping name	Aerosols
14.3. Transp	ort hazard class <mark>(es)</mark>	
Class		2.1
14.4. Packing	e group	
Packing §		
Labels	<u>7. ~ ~ h</u>	2.1
	nmental hazards	4.1
Marine p		-
	nentally hazardo <mark>us substance mark</mark>	no
14.6. Special	l precautions for user	
Special p	provisions	63
Special p	provisions	190
	provisions	277
	provisions	327
	provisions	344
		381
	provisions	
Nnocial r	provisions	959
	quantities	Combination packagings: not more than 1 liter per inner packaging for
		liquids. A package shall not weigh more than 30 kg. (gross mass)
Limited o		no IPC Code
Limited o	ort in bulk according to Annex II of Marpol and th	le ibc code
Limited of 14.7. Transp	ort in bulk according to Annex II of Marpol and th of MARPOL 73/78	
Limited of 14.7. Transp Annex II	of MARPOL 73/78	Not applicable
Limited of 14.7. Transp Annex II		
Limited of 14.7. Transp Annex II	of MARPOL 73/78	
Limited of 14.7. Transp Annex II	of MARPOL 73/78 /IATA-DGR)	
Limited of 14.7. Transp Annex II r (ICAO-TI)	of MARPOL 73/78 /IATA-DGR)	Not applicable

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	Rema	ırk	
17.55 % - 21.10 %			
182.52 g/l - 219.44 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 dar	ngerous	substances, mixtures and artic	les.	
		Designation of the substance, of the substances or of the mixture	egroup of	Conditions of restriction
· reaction mass of tris(2-chloropropyl		iquid substances or mixtures which	) are	1. Shall not be used in:
phosphate and tris(2-chloro-1-methy		egarded as dangerous in accordance		<ul> <li>ornamental articles intended to produce light or colour effects by means of different</li> </ul>
phosphate and phosphoric acid, bis(2		Directive 1999/45/EC or are fulfilling		phases, for example in ornamental lamps and ashtrays,
chloro-1-methylethyl) 2-chloropropy		criteria for any of the following haza		- tricks and jokes,
and phosphoric acid, 2-chloro-1-met				<ul> <li>games for one or more participants, or any article intended to be used as such, even w</li> </ul>
bis(2-chloropropyl) ester		EC) No 1272/2008:	egulation	ornamental aspects,
· polymethylene polyphenyl isocyana		a) hazard classes 2.1 to 2.4, 2.6 and		2. Articles not complying with paragraph 1 shall not be placed on the market.
· polymetriviene polyphenyi isocyana				3. Shall not be placed on the market if they contain a colouring agent, unless required for
	d	and 2, 2.14 categories 1 and 2, 2.15	types A to	fiscal reasons, or perfume, or both, if they:
	F.	; b) becord electron $2.1 \pm 0.2$ ( $2.7$ adv		<ul> <li>can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>present as assisting based and are labelled with BCE as U204.</li> </ul>
		b) hazard classes 3.1 to 3.6, 3.7 adv		<ul> <li>present an aspiration hazard and are labelled with R65 or H304,</li> </ul>
		effects on sexual function and fertili		4. Decorative oil lamps for supply to the general public shall not be placed on the market
		development, 3.8 effects other than	i narcotic	unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopt
		effects, 3.9 and 3.10;		by the European Committee for Standardisation (CEN).
		c) hazard class 4.1;		5. Without prejudice to the implementation of other Community provisions relating to the
	(0	d) hazard class 5.1.	1	classification, packaging and labelling of dangerous substances and mixtures, suppliers sh
				ensure, before the placing on the market, that the following requirements are met:
				a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visib
				legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reac
				children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of
				lamps — may lead to life- threatening lung damage";
				b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public
				legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter ma
				lead to life threatening lung damage";
				c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the generation
				public are packaged in black opaque containers not exceeding 1 litre by 1 December 201
				6. No later than 1 June 2014, the Commission shall request the European Chemicals Ager
				to prepare a dossier, in accordance with Article 69 of the present Regulation with a view
				ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304
				intended for supply to the general public.
				<ol> <li>Natural or legal persons placing on the market for the first time lamp oils and grill light</li> </ol>
				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 th
				competent authority in the Member State concerned. Member States shall make those
				available to the Commission.'
<ul> <li>polymethylene polyphenyl isocyana</li> </ul>		Methylenediphenyl diisocyanate (M		1. Shall not be placed on the market after 27 December 2010, as a constituent of mixture
	ir	ncluding the following specific isom	iers: 4,4'-	concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general
	N	Methylenediphenyl diisocyanate; 2,	4'-	public, unless suppliers shall ensure before the placing on the market that the packaging
	N	Methylenediphenyl diisocyanate; 2,	,2'-	(a) contains protective gloves which comply with the requirements of Council Directive
	N	Methylenediphenyl diisocyanate		89/686/EEC;
				(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other
				Community legislation concerning the classification, packaging and labelling of substance
				and mixtures:
son for revision: 3				Publication date: 2007-08-16
				Date of revision: 2017-12-15
ision number: 0503				Product number: 45249 13/1

	Soudab	ond Easy Gun
		<ul> <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>2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives.</li> </ul>
<u>National legislation Belgium</u> <u>Soudabond Easy Gun</u> No data available <u>National legislation The Nethe</u>	erlands	
Soudabond Easy Gun Waterbezwaarlijkheid	Z (2)	
<u>National legislation France</u> <u>Soudabond Easy Gun</u> No data available polymethylene polyphenyl		
Catégorie cancérogène	4,4'-Diisocyanate de diphényln	néthane; C2
National legislation Germany Soudabond Easy Gun		
WGK	Stoffe (VwVwS) of 27 July 2005 (AwSV) of 18 April 2017	g based on the components in compliance with Verwaltungsvorschrift wassergefährdender 5 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
	2-chloro-1-methylethyl bis(2-chlorog	ro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloroprop propyl) ester
TA-Luft polymethylene polyphenyl	5.2.5	
TA-Luft	5.2.5; I	
TRGS900 - Risiko der Fruchtschädigung	und des biologischen Grenzwe	nat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes rtes nicht befürchtet zu werden isiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des
Sensibilisierende Stoffe	Zielorganen Allergien auslösen	nat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden
TRGS905 - Krebserzeuger TRGS905 - Erbgutverände TRGS905 -	nd Techn. ("Polymeres") MDI (pM ernd Techn. ("Polymeres") MDI (pM	DI) (in Form atembarer Aerosole, A-Fraktion); 2 DI) (in Form atembarer Aerosole, A-Fraktion); - DI) (in Form atembarer Aerosole, A-Fraktion); -
Fruchtbarkeitsgefährden	d	
TRGS905 - Fruchtschädig Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocya	
<u>National legislation United Kir</u> <u>Soudabond Easy Gun</u> No data available polymethylene polyphenyl		lautresorptiv
Skin Sensitisation	Isocyanates, all (as -NCO) Exce	
Respiratory sensitisation <u>Other relevant data</u> <u>Soudabond Easy Gun</u> No data available <u>polymethylene polyphenyl</u> IARC - classification	Isocyanates, all (as -NCO) Exce isocyanate 3; Polymethylene polyphenyl is	
15.2. Chemical safety asse	· · · · · · ·	
H302 Harmful if swallowe H315 Causes skin irritation H317 May cause an allerg	referred to under heading 3: e gas. e aerosol. er: May burst if heated. pressure; may explode if heated. d. 1.	
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vision number: 0503		Product number: 45249 14 / 15

	Souddona Easy Guil						
H319 Causes serious H332 Harmful if inha H334 May cause alle							
H335 May cause respiratory irritation.							
-	H351 Suspected of caus <mark>ing cancer.</mark>						
H373 May cause dar	nage to organs through prolonged or repeated exposure if inhaled.						
(*)	INTERNAL CLASSIFICATION BY BIG						
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)						
DMEL	Derived Minimal Effect Level						
DNEL	Derived No Effect Level						
EC50	Effect Concentration 50 %						
ErC50	E <mark>C50 in terms of reduction of growth ra</mark> te						
LC50	Lethal Concentration 50 %						
LD50	Lethal Dose 50 %						
NOAEL	No Observed Adverse Effect Level						
NOEC	No Observed Effect Concentration						
OECD	Organisation for Economic Co-operation and Development						
PBT	Persistent, Bioaccumulative & Toxic						
PNEC	Predicted No Effect Concentration						
STP	Sludge Treatment Process						
vPvB	very Persistent & very Bioaccumulative						
Specific concentration lin	nits CLP						

polymethylene polyphen <mark>yl isocyanate</mark>	C ≥ 5 %	Eye Irrit 2;H319	analogous to Annex VI
	C ≥ 5 %	Skin Irrit 2;H315	analogous to Annex VI
	C ≥ 0.1 %	Resp Sens 1;H334	analogous to Annex VI
	C ≥ 5 %	STOT SE 3;H335	analogous to Annex VI

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

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