

SAFETY DATA SHEET

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

		All Grystal	
CTION 1: Identifica	tion of the substance,	/mixture and of the company/undertaking	
1.1. Product identifier Product name Registration number REACH Product type REACH	:Fix All Crystal :Not applicable (mixture) :Mixture		
1.2. Relevant identified u	is <mark>es of the substance or mixtu</mark>	re and uses advised against	
<u>1.2.1 Relevant identified use</u> Adhesive	<u>25</u>		
Sealant			
<u>1.2.2 Uses advised against</u> No uses advised against k	known		
1.3. Details of the supplie	er of the safety data sheet		
Supplier of the safety data s SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout T +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com	<u>heet</u>		
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	<u>:t</u>		
1.4. Emergency telephon	o numbor		
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3.2. Mixtures

		CAS No EC No		Conc. (C)	Classification according to CLP	Note	Remark
trimethoxyvinylsilane 01-2119513215-52		2768-02-7 220-449-8			Flam. Liq. 3; H226 Acute Tox. 4; H332	(1)(10)	Constituent
3-(trimethoxysilyl)propylamine 01-2119510159-45		13822-56-5 237-511-5			Skin Irrit. 2; H315 Eye Dam. 1; H318	(1)(10)	Constituent
bis(1,2,2,6,6-pentamethyl-4-pip dimethylethyl)-4- hydroxyphenyl]methyl]butylma 01-2119978231-37		63843-89-0 264-513-3			STOT RE 1; H372 Acute Tox. 4; H302 Aquatic Chronic 1; H410	(1)	Constituent
dioctylbis(pentane-2,4-dionato- 01-0000020199-67		54068-28-9 483-270-6			STOT SE 2; H371 STOT RE 2; H373 Skin Sens. 1; H317	(1)(8)(10)	Constituent

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

(8) Specific concentration limits, see heading 16

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

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 fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms After inhalation: No effects known. After skin contact: No effects known.

After eye contact: Slight irritation. After ingestion: No effects known.

4.2.2 Delayed symptoms No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- 5.1.1 Suitable extinguishing media:
- Polyvalent foam. Dry chemical powder. Carbon dioxide. 5.1.2 Unsuitable extinguishing media:
- No unsuitable extinguishing media known.
- 5.2. Special hazards arising from the substance or mixture
 - On heating/burning: release of toxic and corrosive gases/vapours e.g.: hydrogen chloride, carbon monoxide carbon dioxide.

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

- 5.3.2 Special protective equipment for fire-fighters:
 - Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

Reason for revision: 3

Publication date: 2011-07-26 Date of revision: 2016-01-01

Revision number: 0400

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

See heading 8.2

See nedding 0.2

6.2. Environmental precautions

Contain leaking substance. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

Cover the solid spill with sand/kieselguhr. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. 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

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

- 7.2.2 Keep away from:
- Heat sources.
- 7.2.3 Suitable packaging material: Plastics.
- 7.2.4 Non suitable packaging material:
- No data available

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

Finverbindingen (organisch)(als Sn)	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	0.1 mg/m³
	Short time value (Private occupational exposure limit value)	0.2 mg/m ³
Belgium		
tain (composés organiq <mark>ues de) (en Sn)</mark>	Time-weighted average exposure limit 8 h	0.1 mg/m³
	Short time value	0.2 mg/m³
JSA (TLV-ACGIH)		
Fin organic compounds, a <mark>s Sn</mark>	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.1 mg/m³
	Short time value (TLV - Adopted Value)	0.2 mg/m³
France		
Etain (composés organiq <mark>ues d'), en Sn</mark>	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m³
	Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m ³
ЛК		
Fin compounds, organic, <mark>except Cyhexatin (ISO), (as Sn)</mark>	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.1 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	0.2 mg/m³
o) National biological limit values		
o) National biological lim <mark>it values</mark> revision: 3	Publication date: 2011-07-26	

Reasor

If limit values are applicable and I.2 Sampling methods If applicable and available it will I.3 Applicable limit values when	be listed below.		- 1		
If limit values are applicable and	l available these will be listed b	elow.			
I.4 DNEL/PNEC values DNEL/DMEL - Workers					
trimethoxyvinylsilane					
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	Long-term systemic effe		4.9 mg/m ³		
<u>3-(trimethoxysilyl)propylamine</u>	Long-term systemic effe	cts dermal	0.69 mg/kg b	w/day	
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	Long-term systemic effe		58 mg/m ³		
his/1.2.2.6.6 nontomothyl 4 nin	Long-term systemic effe		8.3 mg/kg bv		
bis(1,2,2,6,6-pentamethyl-4-pip Effect level (DNEL/DMEL)	Type	nyi)-4-nyaroxyphenyiji	Value		Remark
DNEL	Long-term systemic effe	cts inhalation	0.05 mg/m ³		
	Long-term systemic effe	cts dermal	0.07 mg/kg b	w/day	
dioctylbis(pentane-2,4-dionato- Effect level (DNEL/DMEL)			Value		Remark
DNEL	Type Long-term systemic effe	cts inhalation	84 mg/m ³		Kernark
	Acute systemic effects in	halation	84 mg/m ³		
	Long-term local effects in		0.091 mg/m ³		
DNEL/DMEL - General populati	Long-term systemic effe	cts dermal	0.07 mg/kg b	w/day	
trimethoxyvinylsilane					
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	Long-term systemic effe		1.04 mg/m ³	1	
	Acute systemic effects in Acute systemic effects d		93.4 mg/m³ (0.3 mg/kg bv		
	Acute systemic effects d		26.9 mg/kg b		
	Acute systemic effects d	ermal	0.3 mg/kg bv	v/day	
3-(trimethoxysilyl)propylamine Effect level (DNEL/DMEL)	Tumo		Value		Domort
DNEL	Type Long-term systemic effe	cts inhalation	17 mg/m ³		Remark
DITLE	Long-term systemic effe		5 mg/kg bw/	day	
	Long-term systemic effe		5 mg/kg bw/		
bis(1,2,2,6,6-pentamethyl-4-pip Effect level (DNEL/DMEL)	eridyl) [[3,5-bis(1,1-dimethylet Type	hyl)-4-hydroxyphenyl]	methyl]butylmalonate Value		Remark
DNEL	Long-term systemic effe	cts inhalation	0.01 mg/m ³		Kellidik
	Long-term systemic effe		33 μg/kg bw,		
	Long-term systemic effe	cts oral	3 μg/kg bw/c	lay	
PNEC trimethoxyvinylsilane					
Compartments	Value			Remark	
Fresh water	0.34 mg				
Marine water Aqua (intermittent releases)	0.034 m 3.4 mg/l				
STP	110 mg/				
Fresh water sediment	1.24 mg	/kg sediment dw			
Marine water sediment		/kg sediment dw			
Soil <u>3-(trimethoxysilyl)propylamine</u>	0.052 m	g/kg soil dw			
Compartments	Value			Remark	
Fresh water	0.33 mg				
Marine water Aqua (intermittent releases)	0.033 m 3.3 mg/l	0.			
STP	3.3 mg/l 13 mg/l				
Fresh water sediment		kg sediment dw			
Marine water sediment		/kg sediment dw			
Soil Oral	0.045 m 44.4 mg	g/kg soil dw			
r revision: 3				ate: 2011-07-2 on: 2016-01-0	

Compartments	Value	Remark
Fresh water	0.00002 mg/l	
Marine water	0.000002 mg/l	
Aqua (intermittent releases)	0.61 mg/l	
STP	1 mg/l	
Fresh water sediment	252.2 mg/kg sediment dw	
Marine water sediment	25.22 mg/kg sediment dw	
Soil	1 mg/kg soil dw	
octylbis(pentane-2,4-dionato-O,O')tin		
	Value	Remark
octylbis(pentane-2,4-dionato-0,0')tin		Remark
octylbis(pentane-2,4-di <mark>onato-O,O')tin</mark> Compartments	Value	Remark
octylbis(pentane-2,4-dionato-0,0')tin Compartments Fresh water	Value 0.026 mg/l	Remark
octylbis(pentane-2,4-dionato-0,0')tin Compartments Fresh water Marine water	Value 0.026 mg/l 0.0026 mg/l	Remark
octylbis(pentane-2,4-dionato-O,O')tin Compartments Fresh water Marine water Aqua (intermittent releases)	Value 0.026 mg/l 0.0026 mg/l 0.026 mg/l 0.26 mg/l	Remark
octylbis(pentane-2,4-dionato-O,O')tin Compartments Fresh water Marine water Aqua (intermittent releases) STP	Value 0.026 mg/l 0.0026 mg/l 0.26 mg/l 1 mg/l	Remark

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Gloves.

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Paste
Odour	Almost odourless
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Not easily combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	water ; insoluble
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperatur <mark>e</mark>	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

9.2. Other information

Surface tension	No data available	
Absolute density	No data available	
ason for revision: 3		Publication date: 2011-07-26

Revision number: 0400

Product number: 51345

SECTION 10: Stability	and reactivity
10.1. Reactivity	

Heating increases the fire hazard.

- 10.2. Chemical stability Stable under normal conditions.
- 10.3. Possibility of hazardous reactions No data available.
- 10.4. Conditions to avoid Keep away from naked flames/heat.
- 10.5. Incompatible materials No data available.
- 10.6. Hazardous decomposition products

On heating/burning: release of toxic and corrosive gases/vapours e.g.: hydrogen chloride, carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1.1 Information on toxicological effects

Acute toxicity

Fix All Crystal

No (test)data on the mixture available

trimethoxyvinylsilane

<u>nethoxyvinylsilane</u>							
Route of exposure	Parame	eter Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	7120 mg/kg		Rat (male)	Experimental value	
Oral	LD50	Equivalent to OECD 401	7236 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	3.36 ml/kg bw	24 h	Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	16.8 mg/l	4 h	Rat (male/female)	Experimental value	
trimethoxysilyl)propyl	amine						
Route of exposure	Parame	eter Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2.970 ml/kg bw		Rat (male)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	11.3 ml/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC50	OECD 403	> 5 ppm	6 h	Rat (male)	Read-across	
Inhalation (vapours)	LC50	OECD 403	> 16 ppm	6 h	Rat (female)	Read-across	
(1,2,2,6,6-pentamethy	/l-4-pipe	eridyl) [[3,5-bis(1,1-dimet	hylethyl)-4-hydroxyr	henyl]methyl]buty	Imalonate	•	•
Route of exposure	Parame	eter Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	1490 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 3170 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	> 460 mg/m ³ air	4 h	Rat (male/female)	Experimental value	
ctylbis(pentane-2,4-di	ionato-O	D,O')tin					
Route of exposure	Parame	eter Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	2500 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/g	24 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD	1224 ppm	4 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

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Corrosion/irritation

Reason for revision: 3

Publication date: 2011-07-26 Date of revision: 2016-01-01

Fix All Crystal

	Result	Method	Exposure time	Time point	Species	Value	Remark
F		0500 405	241	1 24 40 72 h	- Dalahiti	determination	
Eye	Not irritating	OECD 405	24 h	1; 24; 48; 72 hour		Experimental value	
Skin	Not irritating	Other	24 h	24; 48; 72 hours	Rabbit	Experimental value	
3-(trimethoxysilyl)pro					h :	hr i	
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious <mark>eye</mark> damage	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating	OECD 404	3 minutes - 240 minutes	1; 24; 48; 72; 168 hours	Rat	Calculated value	
$\frac{1}{12266}$	thul 4 piporidul)	[[2 5 bic/1 1 dimoth		henyl]methyl]butylma	alonato		
Route of exposure		Method	Exposure time	Time point	Species	Value	Remark
Eye	Not irri <mark>tating</mark>	Equivalent to	30 seconds	24; 48; 72 hours	Rabbit	determination Experimental value	
Skin	Not irritating	OECD 405 Equivalent to	24 h	24; 72 hours	Rabbit	Experimental value	
		OECD 404					
lioctylbis(pentane-2,	<u>4-dionato-0,0')tir</u>	<u>n</u>					
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	1 hour	Rabbit	Experimental value	
atory or skin sensitis	sation						
ll <u>Crystal</u> Io (test)data on the r	mixture available						
<u>Ill Crystal</u> Io (test)data on the r rimethoxyvinylsilane	nixture av <mark>ailable</mark>		_				
ll <u>Crystal</u> No (test)data on the r	nixture a <mark>vailable</mark> Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
<u>Ill Crystal</u> Io (test)data on the r rimethoxyvinylsilane	nixture av <mark>ailable</mark>	Method OECD 406	Exposure time		Species Guinea pig (male/female)	Value determination Experimental value	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin (trimethoxysilyl)pro	nixture available Result Not sensitizing			point	Guinea pig (male/female)	Experimental value	
<u>Il Crystal</u> Io (test)data on the r rimethoxyvinylsilane Route of exposure Skin	nixture available Result Not sensitizing		Exposure time	point	Guinea pig		
Il Crystal Io (test)data on the r rimethoxyvinylsilane Route of exposure Skin (trimethoxysilyl)pro	nixture available Result Not sensitizing	OECD 406		point 24; 48 hours Observation time	Guinea pig (male/female) Species Guinea pig	Experimental value	
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)pro Route of exposure Skin	nixture available Result Not sensitizing pylamine Result Not sensitizing	OECD 406 Method OECD 406	Exposure time	point 24; 48 hours Observation time point 24; 48 hours	Guinea pig (male/female) Species Guinea pig (male/female)	Experimental value Value determination	
Il Crystal Io (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)pro Route of exposure Skin	nixture available Result Not sensitizing Pylamine Result Not sensitizing ethyl-4-piperidyl)	OECD 406 Method OECD 406	Exposure time	point 24; 48 hours Observation time point 24; 48 hours henvl]methvl]butvlma Observation time	Guinea pig (male/female) Species Guinea pig (male/female)	Experimental value Value determination	Remark
Il Crystal Io (test)data on the r rimethoxyvinylsilane Route of exposure Skin (trimethoxysilyl)pro Route of exposure Skin	nixture available Result Not sensitizing Pylamine Result Not sensitizing ethyl-4-piperidyl)	OECD 406 Method OECD 406 [[3,5-bis(1,1-dimeth	Exposure time 72 h	point 24; 48 hours Observation time point 24; 48 hours henyl]methyl]butylma	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig	Experimental value Value determination Experimental value	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)proc Route of exposure Skin is(1,2,2,6,6-pentame Route of exposure Skin	nixture available Result Not sensitizing Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing	OECD 406 Method OECD 406 [[3,5-bis(1,1-dimeth Method Other	Exposure time 72 h	point 24; 48 hours Observation time point 24; 48 hours henvl]methvl]butvlma Observation time	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species	Experimental value Value determination Experimental value Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)proc Route of exposure Skin is(1,2,2,6,6-pentame Route of exposure Skin	nixture available Result Not sensitizing pylamine Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin	OECD 406 Method OECD 406 [[3,5-bis(1,1-dimeth Method Other	Exposure time 72 h	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig	Experimental value Value determination Experimental value Value determination	Remark
Skin Route of exposure Skin Skin Route of exposure Skin Lioctylbis(pentane-2, Route of exposure	nixture available Result Not sensitizing pylamine Result Not sensitizing thyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result	OECD 406 Method OECD 406 (<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)proc Route of exposure Skin 	nixture available Result Not sensitizing pylamine Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing	OECD 406 Method OECD 406 [[3,5-bis(1,1-dimeth Method Other n Method OECD 429	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female)	Experimental value Value determination Experimental value Value determination Experimental value	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)proc Route of exposure Skin 	nixture available Result Not sensitizing pylamine Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing	OECD 406 Method OECD 406 [[3,5-bis(1,1-dimeth Method Other n Method OECD 429	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
Il Crystal Io (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)pro Route of exposure Skin is(1,2,2,6,6-pentame Skin ioctylbis(pentane-2, Route of exposure Skin udgement is based o nclusion Iot classified as sensi	nixture available Result Not sensitizing Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing n the relevant ing tizing for skin	OECD 406 Method OECD 406 [<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method OECD 429 gredients	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)proc Route of exposure Skin is(1,2,2,6,6-pentame Route of exposure Skin	nixture available Result Not sensitizing Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing n the relevant ing tizing for skin	OECD 406 Method OECD 406 [<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method OECD 429 gredients	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)pro Route of exposure Skin 	nixture available Result Not sensitizing Result Not sensitizing ethyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing n the relevant ing tizing for skin tizing for inhalatic	OECD 406 Method OECD 406 [<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method OECD 429 gredients	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin -(trimethoxysilyl)pro Route of exposure Skin is(1,2,2,6,6-pentame Skin is(1,2,2,6,6-pentame Skin ioctylbis(pentane-2, Route of exposure Skin udgement is based o nclusion Not classified as sensi	nixture available Result Not sensitizing pylamine Result Not sensitizing ttyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing n the relevant ing itizing for skin itizing for inhalatio ity	OECD 406 Method OECD 406 [<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method OECD 429 gredients	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin (trimethoxysilyl)proc Route of exposure Skin is(1,2,2,6,6-pentame Route of exposure Skin ioctylbis(pentane-2, Route of exposure Skin udgement is based o nclusion Not classified as sensi Not classified as sensi	nixture available Result Not sensitizing pylamine Result Not sensitizing ttyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing n the relevant ing itizing for skin itizing for inhalatio ity	OECD 406 Method OECD 406 [<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method OECD 429 gredients	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark
All Crystal No (test)data on the r rimethoxyvinylsilane Route of exposure Skin (trimethoxysilyl)proc Route of exposure Skin is(1,2,2,6,6-pentame Route of exposure Skin ioctylbis(pentane-2, Route of exposure Skin udgement is based o nclusion Not classified as sensi Not classified as sensi	nixture available Result Not sensitizing Pylamine Result Not sensitizing Pthyl-4-piperidyl) Result Not sensitizing 4-dionato-O,O')tin Result Sensitizing n the relevant ing tizing for skin tizing for inhalatio ity	OECD 406 Method OECD 406 [<u>[3,5-bis(1,1-dimeth</u> Method Other <u>n</u> Method OECD 429 gredients	Exposure time 72 h ylethyl)-4-hydroxyp Exposure time	point 24; 48 hours Observation time point 24; 48 hours 24; 48 hours henyl]methyl]butylma Observation time point	Guinea pig (male/female) Species Guinea pig (male/female) alonate Species Guinea pig (male/female) Species	Experimental value Value determination Experimental value Value determination Experimental value Value determination Value determination	Remark

Product number: 51345

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<u>trir</u>	nethoxyvinylsilane								
	Route of exposure	Paramete	er Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (stomach tube)	LOAEL	OECD 422	62.5 mg/kg bw/day	Thymus	Weight reduction	6 weeks (daily) - 8 weeks (daily)	Rat (male/female)	Experimental value
	Inhalation (vapours)	LOAEC	Other	100 ppm		Change in urine composition	days/week)	Rat (male/female)	Experimental value
	Inhalation (vapours)	NOAEC	Other	10 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
<u>3-(</u> 1	rimethoxysilyl)propy		n Mathad	Malua	0	Tff a at	Fun an una Alman	Cassian	Value
	Route of exposure			Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (stomach tube)	LOAEL	OECD 408	600 mg/kg bw/day	Liver	Clinical signs; mortality; body weight; food consumption	92 day(s)	Rat (male/female)	Read-across
	Oral (stomach tube)	NOAEL	OECD 408	200 mg/kg bw/day	Liver	No effect	92 day(s)	Rat (male/female)	Read-across
		(inhala <mark>tio</mark> risk te <mark>st)</mark>		147 mg/m³ air	Lungs	Lesions in larynx, trachea and lung	4 weeks (6h/day, 5 days/week)	Rat (male)	Read-across
bis	1,2,2,6,6-pentameth								
	Route of exposure			Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Lymph nodes	Enlargement of the lymph glands		Rat (male/female)	Experimental value
	Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Liver	Enlargement/af ection of the liver		Rat (male/female)	Experimental value
	Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Spleen	Spleen enlargement/af ection	28 day(s) f	Rat (male/female)	Experimental value
<u>dio</u>	ctylbis(pentane-2,4- Route of exposure			Value	Organ	Effect	Exposure time	Species	Value determination
	Oral (diet)	NOAEL	OECD 422	0.3 mg/kg bw/day - 0.5 mg/kg bw/day	Thymus	No effect	28 day(s)	Rat (male/female)	Experimental value
	Dermal								Data waiving
	Inhalation (vapours)	NOEC	Equivalent to OECD 413	100 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
	Inhalation (vapours)	LOAEC	Equivalent to OECD 413	650 ppm	Various organs	Histopathology	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
	gement is based on	the releva	ant ingredients						
-	lusion								
NO	t classified for subch	ronic toxic	city						
•	nicity (in vitro)								
<u>Fix All</u> No	<u>Crystal</u> (test)data on the mi	xture avai	lable						
<u>trir</u>	nethoxyvinylsilane								
	Result		Method		Test substrate		fect	Value dete	
	Positive with metab activation, positive metabolic activatior	without	OECD 473		CHL/IU cells	Ch	romosome aberratior	ns Experiment	tal value
	Negative with meta activation, negative metabolic activatior	bolic without	OECD 476		Chinese hamste	r ovary (CHO) No	effect	Experiment	al value
	Negative with meta activation, negative metabolic activatior	bolic without	OECD 471		Bacteria (S.typh	imurium) No	effect	Experiment	al value
	Negative with meta		OECD 471		Escherichia coli	No	effect	Experiment	al value
	activation, negative metabolic activation	without						Experiment	
Reason	or revision: 3					Pu	blication date: 2011-0	7-26	
							te of revision: 2016-0		
Revision	number: 0400					Pr	oduct number: 51345		8/16

				-				-		_			
	rimethoxysilyl)propylamine	b				ha							
	Result	Metho				Test substrate		Effect					nination
	Negative with metabolic activation, negative without metabolic activation	OECD 4	476			Chinese hamster ov	vary (CHO)	No effect	t		Read-a	across	
	Negative with metabolic activation, negative without metabolic activation	OECD 4	473			Chinese hamster lu fibroblasts	ng	No effect	t		Read-a	across	
	Negative with metabolic activation, negative without	OECD 4	471			Escherichia coli		No effect		Experimental value		l value	
	metabolic activation Negative with metabolic activation, negative without	OECD 4	471			Bacteria (S.typhimu	ırium)	No effect	t		Experi	Experimental value	
	metabolic activation 1,2,2,6,6-pentamethyl-4-pip	eridvl) [[3	.5-bis(1.1	dimethvletł	nvl)-4	-hydroxyphenyl]mei	thvl]butvlm	alonate					
	Result	Metho				Test substrate		Effect					nination
	Negative with metabolic activation, negative without metabolic activation	Ames t	est			Bacteria (S.typhimu	irium)	No effect			Experi	menta	l value
	Negative with metabolic activation, negative without metabolic activation				Chinese hamster ov	vary (CHO)	No effect	t		Experi	menta	l value	
	Positive with metabolic activation, positive without metabolic activation		473			Chinese hamster ov	vary (CHO)				Experi	menta	l value
	ctylbis(pentane-2,4-dionato-												
	Result	Metho	-			Test substrate		Effect					mination
	Negative	OECD 4	476			Chinese hamster lu fibroblasts	ng	No effect	t		Experi	menta	l value
	Negative	OECD 4				Chinese hamster lu fibroblasts	-	No effect		Experimental value			
	Negative	OECD 4	471			Bacteria (S.typhimu	irium)	No effect	t	_	Experi	menta	l value
Mutager	nicity (in vivo)												
	(test)data on the mixture av	ailable											
	nethoxyvinylsilane Result		Method		Evno	sure time	Test subst	rato	-	Organ		Value	edetermination
	Negative			/6-83-001	слро	sure time	Mouse (ma		e)	Blood		-	imental value
	rimethoxysilyl)propylamine												
	Result		Method		Ехро	sure time	Test subst		- 1	Organ	_		edetermination
	Negative		Equivale 474	nt to OECD			Mouse (ma	ale/remai	e)	Bone marr	ow	кеаа	across
	ctylbis(pentane-2,4-dionato-				·		·					-	
	Result Negative		Method OECD 47		Ехро	sure time	Test subst Mouse (ma			Organ Bone marr	0.44	-	e determination
			OECD 47	4			wouse (ma	ale)		BOILE IIIaII	Ow	Exper	
Carcinog	-												
	(test)data on the mixture av	ailable											
	rimethoxysilyl)propylamine			1			-				-		
	Route of Parameter exposure	Method		Value		Exposure time	Species		Effect		Organ		Value determination
	Dermal NOAEL	Not furth determin		43.8 mg/we	ek	104 weeks (3 times/week)	Mouse (male/fe		No car effect	cinogenic	Skin		Inconclusive, insufficient data
Reprodu	ictive toxicity												
Fix All (
No	(test)data on the mixture av	ailable											
						7							
Reason f	or revision: 3							·		e: 2011-07-3 n: 2016-01-0			
Revision	number: 0400							Product I	numbe	er: 51345			9/16
													- / 20

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OTS 798.4350	100 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Maternal toxicity	NOAEL	EPA OTS 798.4350	25 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL (F1)	OECD 422	1000 mg/kg bw/day	6 week(s) - 8 week(s)	Rat (male/female)	No effect		Experimental value
	NOAEL (P)	OECD 422	1000 mg/kg bw/day	8 week(s)	Rat (male)	No effect		Experimental value
	NOAEL (P)	OECD 422	250	6 week(s)	Rat (female)	No effect		Experimental value

L		798.4900 EPA OTS	<mark>600 m</mark> g/kg	(gestation, daily) 14 days	Rat Rat	No effect Minor skeletal	Skeleton	Read-across Read-across
			0.0	,	Rat	Minor skeletal	Skeleton	Read-across
Aaternal toxicity			,,	(gestation, daily)		variations		
	NOAEL		100 mg/kg bw/day	14 day(s)	Rat	No effect		Read-across
L	LOAEL		600 mg/kg bw/day	14 day(s)	Rat	Clinical signs; mortality; body weight; food consumption	General	Read-across
ffects on fertility N	NOAEL		<mark>600 m</mark> g/kg bw/day		Rat (male/female)	No effect		Read-across

	Parameter	Method	Value	Exposure time	Species	Effect	- J.	Value determination
Developmental toxicity								Data waiving
Maternal toxicity								Data waiving
Effects on fertility			0, 0	/ (- /	Rat (male/female)	No effect		Experimental value

dioctylbis(pentane-2,4-dionato-0,0')tin

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Maternal toxicity	NOAEL	OECD 422	0.3 mg/kg bw/day - 0.5 mg/kg bw/day	28 day(s)	Rat	No effect	Thymus	Experimental value
Effects on fertility	NOAEL	OECD 422	0.3 mg/kg bw/day - 0.5 mg/kg bw/day	28 day(s)	Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for reprotoxic or developmental toxicity Not classified for mutagenic or genotoxic toxicity Not classified for carcinogenicity

Toxicity other effects

Fix All Crystal No (test)data on the mixture available

Chronic effects from short and long-term exposure

Fix All Crystal No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Fix All Crystal

No (test)data on the mixture available

Reason for revision: 3

Publication date: 2011-07-26 Date of revision: 2016-01-01

Product number: 51345

rimethoxyvinylsilane	Doromator	Mathead	Value	Duration	Crossier	Toot dealers	Freeh /selt	
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinatio
Acute toxicity fishes	LC50		191 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Experimental value; Nominal
								concentration
Acute toxicity invertebrates	EC50	EU Method C.2	168.7 mg/l	48 h			Fresh water	Experimental value GLP
Toxicity algae and other aquati plants	c EC50	EPA 67014- 73-0	210 mg/l	7 day(s)	Pseudokirchnerie lla subcapitata	Static system	Fresh water	Experimental value Nominal concentration
3-(trimethoxysilyl)propylamine	•	_			•		•	•
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 934 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity invertebrates	EC50	OECD 202	331 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aqu <mark>ati</mark> plants	c EC50	EU Method C.3	> 1000 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
Toxicity aquatic micro- organisms	EC50	Other	43 mg/l	5.75 h	Pseudomonas putida	Static system	Fresh water	Read-across; GLP
pis(1,2,2,6,6-pentamethyl-4-pipe	ridyl) [[3,5-bis(1						
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Experimental value GLP
Toxicity algae and other aqu <mark>ati</mark> plants	c EC50	Other	61 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value Biomass
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	2 μg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value GLP
Toxicity aquatic micro- organisms	IC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value
dioctylbis(pentane-2,4-dionato-C),O')tin	•						
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	<mark>86 m</mark> g/l	96 h	Pisces	Static system		Experimental value
Acute toxicity invertebrates	EC50	OECD 202	58.6 mg/l	48 h	Daphnia magna	Static system		Experimental value
Toxicity algae and other aquati plants	c EC50	OECD 201	300 mg/l	24 h	Scenedesmus subspicatus	Static system		Experimental value
assification is based on the relev	ant ingredients						1	
onclusion Harmful to aquatic life with long	lasting effects.							
2.2. Persistence and degra	-							
rimethoxyvinylsilane								
Biodegradation water		Makus		b		h.		tion.
Method					ation		llue determina	
OECD 301F: Manometric Res Phototransformation air (DT50		p1%;GLP		28 0	day(s)	Ex	perimental val	ue
Method	, all)	Value		Con	c. OH-radicals	Ma	lue determina	tion
		0.56 day(s)			$000 / \text{cm}^3$	-	lculated value	
Half-life water (t1/2 water)		2.00 ddy(0/		000				
Method		Value			nary radation/mineralisa		llue determina	tion
OECD 111: Hydrolysis as a fur	nction of pH	< 2.4 h; pH =	7	0	nary degradation		eight of eviden	ice
3-(trimethoxysilyl)propylamine								
Biodegradation water								

Biodegradation water				
Method	Value	Duration	Value determination	
OECD 301F: Manometric Respirometric	ry Test 51 %; GLP	28 day(s)	Experimental value	
Phototransformation air (DT50 air)				
Method	Value	Conc. OH-radicals	Value determination	
	0.56 day(s)	500000 /cm³	Calculated value	
Half-life water (t1/2 water)				
Method	Value	Primary degradation/mineralisation	Value determination	
OECD 111: Hydrolysis as a function of	pH < 2.4 h; pH = 7	Primary degradation	Weight of evidence	
<u>3-(trimethoxysilyl)propylamine</u> Biodegradation water				
Method	Value	Duration	Value determination	
EU Method C.4	67 %; GLP	28 day(s)	Experimental value	
Half-life water (t1/2 water)			7	
Method	Value	Primary degradation/mineralisation	Value determination	
	4 h; pH = 7	Primary degradation	QSAR	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3	,5-bis(1,1-dimethylethyl)-4-hydro	pxyphenyl]methyl]butylmalonate		
Biodegradation water				
Method	Value	Duration	Value determination	
OECD 301B: CO2 Evolution Test	2 %	28 day(s)	Experimental value	
Reason for revision: 3		Publication date:	2011-07-26	
		Date of revision: 2	2016-01-01	
Revision number: 0400		Product number:	51345	11/16

In form the second seco				FIX All C	rystal	
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Ground water pollutant CTION 13: Disposal considerations son for revision: 3 Publication date: 2011-07-26 Date of revision: 2016-01-01	3-(trimethoxysilyl)pr	opylamine				
CTION 13: Disposal considerations Publication date: 2011-07-26 Date of revision: 2016-01-01	Ground water					
Ason for revision: 3 Publication date: 2011-07-26 Date of revision: 2016-01-01	Ground water poll	utant				
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Ason for revision: 3 Publication date: 2011-07-26 Date of revision: 2016-01-01	CTION <u>13: Dis</u>	sposal cons	siderations			
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	-				Publication c	date: 2011-07-26
icion number: 0400 Droduct number: 51245 124						
	vision number: 0400				Date of revis	ion: 2016-01-01

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

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

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

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Regulation (EU) No 1357/2014.

13.1.2 Disposal methods

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

13.1.3 Packaging/Container

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

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

SECTION 14: Transport information

Road (ADR)			
14.1. UN number	r		
Transport		Not subject	
14.2. UN proper	shipping name	[
14.3. Transport h			
	ification number		
Class			
Classification	code		
14.4. Packing gro			
Packing grou			
Labels	P		
14.5. Environme	ntal hazards		
	ally hazardous substance mark	no	
14.6. Special pre			
Special provis			i
Limited quan	luties		
Rail (RID)			
14.1. UN number	r		
Transport		Not subject	
14.2. UN proper	shipping name		
14.3. Transport h			
	ification number		
Class			
Classification	code		
14.4. Packing gro			
Packing grou			
Labels	P		
14.5. Environme	ntal hazards		
	ally hazardous substance mark	no	
14.6. Special pre			
Special provis			
Limited quan			
Limited quan	luties		
Inland waterwa	ys (ADN)		
14.1. UN number			
Transport		Not subject	
14.2. UN proper	shipping na <mark>me</mark>		
14.3. Transport h			
Class			
Classification	code		
14.4. Packing gro	αμα		
Packing grou			
Labels	P		
14.5. Environme	ntal hazards		
	ally hazardous substance mark	no	
14.6. Special pre			
Special provis			
Limited quan			
Reason for revision: 3		Publication date: 2011-07-26	
		Date of revision: 2016-01-01	
Revision number: 0400		Product number: 51345	13/16
			• -

Transport		Not subject	
14.2. UN proper shipping n	ame	recousieer	
14.3. Transport hazard clas			
Class			
14.4. Packing group			
Packing group			
Labels			
14.5. Environmental hazar	ds		
Marine pollutant		-	
Environmentally hazard		no	
14.6. Special precautions for	or user		
Special provisions			
Limited quantities			
	ording to Annex II of Marpol and	the IBC Code	
Annex II of MARPOL 73	3/78		
· (ICAO-TI/IATA-DGR)			
14.1. UN number			
Transport		Not subject	
14.2. UN proper shipping n	ame		
14.3. Transport hazard clas			
Class			
14.4. Packing group			
Packing group			
Labels			
14.5. Environmental hazar			
Environmentally hazard		no	
14.6. Special precautions for	or user		
Special provisions			
	ansport: limited quantities: maxi	mum net quantity	
per packaging			
	tory information		

VOC content Directive 2010/75/EU

VOC content		Remark	
< 5.3 %			

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.

· trimethoxyvinylsilane		id substances or mixtures whic		1. Shall not be used in:
· 3-(trimethoxysilyl)propylamine		rded as dangerous in accordan		 ornamental articles intended to produce light or colour effects by means of different
· dioctylbis(pentane-2,4-dionato-0,0')		ctive 1999/45/EC or are fulfillin		phases, for example in ornamental lamps and ashtrays,
		ria for any of the following haz		 tricks and jokes,
		tegories set out in Annex I to R		- games for one or more participants, or any article intended to be used as such, even with
		No 1272/2008:		ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the
		azard classes 2.1 to 2.4, 2.6 and		market.3. Shall not be placed on the market if they contain a colouring agent, unless
				required for fiscal reasons, or perfume, or both, if they:
	and 2	2, 2.14 categories 1 and 2, 2.15	types A to	 can be used as fuel in decorative oil lamps for supply to the general public, and,
	F;			 present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps
		azard classes 3.1 to 3.6, 3.7 adv		for supply to the general public shall not be placed on the market unless they conform to
		cts on sexual function and fertil	'	the European Standard on Decorative oil lamps (EN 14059) adopted by the European
		elopment, 3.8 effects other that	n narcotic	Committee for Standardisation (CEN).5. Without prejudice to the implementation of other
		cts, 3.9 and 3.10;		Community provisions relating to the classification, packaging and labelling of dangerous
		azard class 4.1;		substances and mixtures, suppliers shall ensure, before the placing on the market, that the
	(d) ha	azard class 5.1.		following requirements are met:
				a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly,
				legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of
				children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of
				lamps — may lead to life- threatening lung damage";
				b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are
				legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage".
				lead to life threatening lung damage"; a) lama ails and grill lighters, labelled with DCE or U204, intended for supply to the general
				c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general
				public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to
				prepare a dossier, in accordance with Article 69 of the present Regulation with a view to
				ban, if appropriate, grill lighter fluids and fuel for decorative
				ban, il appropriate, grill lighter futus and fuel for decorative
ason for revision: 3				Publication date: 2011-07-26
				Date of revision: 2016-01-01
				Date of revision, 2010-01-01

				lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
· dioctylbis(pentane-2,4-dionato-0,0	')tin	Organostannic compounds		 Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as blocide in free association paint.2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as blocide to prevent the fouling by micro-organisms, plants or animals of: (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes; (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming; (c) any totally or partly submerged appliance or equipment.3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.4. Tri-substituted organostannic compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0.1 % by weight of tin. b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.5. Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0.1 % by weight of tin. b) Articles and mixtures not complying with point (a) shall not apply until 1 January 2012 in mixtures and articles for supply to the general public:
• trimethoxyvinylsilane		Substances classified as flammable category 1 or 2, flammable liquids of 1, 2 or 3, flammable solids category substances and mixtures which, in with water, emit flammable gases, 2 or 3, pyrophoric liquids category 1 pyrophoric solids category 1, regard whether they appear in Part 3 of Ar that Regulation or not.	categories 1 or 2, contact category 1, 1 or dless of	 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: metallic glitter intended mainly for decoration, artificial snow and frost, "whoopee" cushions, silly string aerosols, imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
National legislation The Net	herland	<u>ls</u>		
Fix All Crystal				
Waste identification (th Netherlands)	ie	LWCA (the Netherlands): KGA	category (14
Waterbezwaarlijkheid		1		
National legislation German	Y			
Reason for revision: 3				Publication date: 2011-07-26 Date of revision: 2016-01-01
Revision number: 0400				Product number: 51345 15 / 16

Fix All Crystal						
WGK		1; Classification water pollutir		ponents in complia	nce with Verwaltun	gsvorschrift wassergefähr
		Stoffe (VwVwS) of 27 July 200	5 (Anhang 4)			
trimethoxyvinylsilane TA-Luft						
3-(trimethoxysilyl)pro		5.2.5				
TA-Luft		5.2.5				
		eridyl) [[3,5-bis(1,1-dimethylet	hyl)-4-hydroxypher	yl]methyl]butylmal	onate	
TA-Luft		5.2.1				
dioctylbis(pentane-2,4	-dionato-O	D,O')tin				
Schwangerschaft Gr		D				
MAK 8-Stunden-Mit		Zinnverbindungen, organische			perechnet	
mg/m³ TA-Luft		gemessen als einatembare Fra 5.2.5	aktion (vgl. Abschn.	Vd) S. 191)		
		5.2.5				
<u>National legislation Franc</u> <u>Fix All Crystal</u> No data available	<u>e</u>					
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<u>Fix All Crystal</u> No data available						
Other relevant data						
Fix All Crystal						
No data available						
dioctylbis(pentane-2,4						
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.2. Chemical safety a	ssessme	ent				
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ION 16: Other	inform	nation				
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