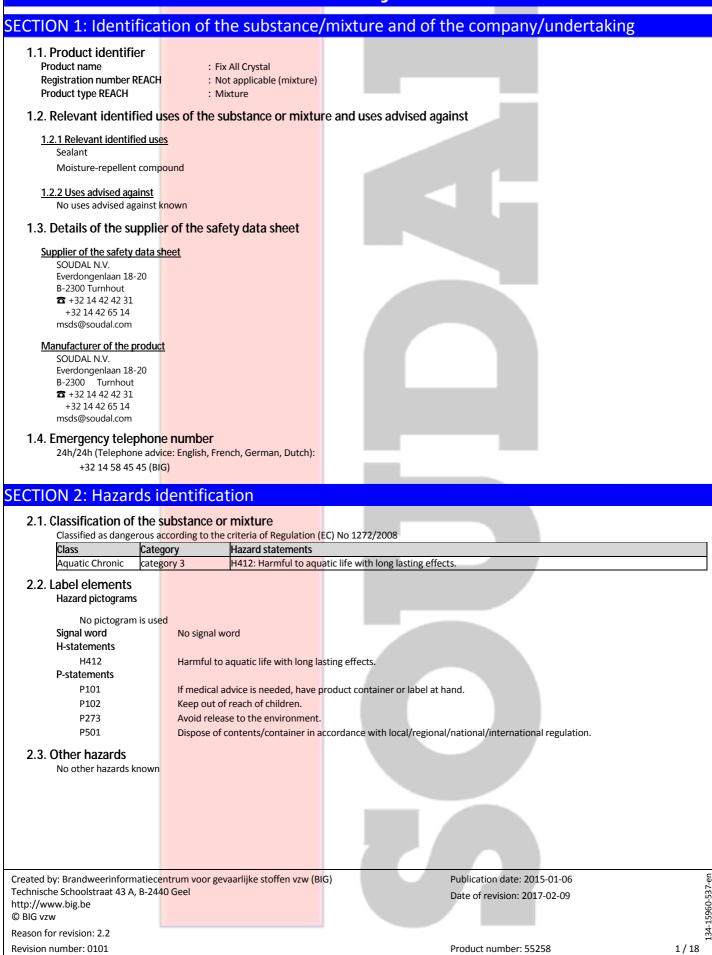


SAFETY DATA SHEET

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



SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

2.2 Minture

3.2. Mixtures							
Name REACH Registration No	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 STOT RE 2; H373	(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)(9)	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
pyrithione zinc 01-2119511196-46		13463-41-7 236-671-3		%	Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(9)	Constituent

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

(8) Specific concentration limits, see heading 16

(9) M-factor, 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: No effects known. 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:
- Adapt extinguishing media to the environment.
- 5.1.2 Unsuitable extinguishing media: Solid water jet ineffective as extinguishing medium.

Reason for revision: 2.2

Publication date: 2015-01-06 Date of revision: 2017-02-09

5.2. Special hazards arising from the substance or mixture

On burning: release of silicon oxides, carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

5.3.1 Instructions:

- 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

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.

Suitable protective clothing See heading 8.2

6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Use appropriate containment to avoid environmental contamination. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers. Clean 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. Keep out of direct sunlight. Protect against frost. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, combustible materials.

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.

Belgium		
Etain (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/m ³
The Netherlands		
Tinverbindingen (organis <mark>ch)(als Sn)</mark>	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	0.1 mg/m ³
	Short time value (Private occupational exposure limit value)	0.2 mg/m ³
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
r revision: 2.2	Publication date: 2015-01-06	
	Date of revision: 2017-02-09	
number: 0101	Product number: 55258	3/1

Reaso

	en Sn	Short time value (VL: Va	leur non réglementaire ir	ndicative)	0.2 mg/r
UK					
Tin compounds, organic, except	Cyhexatin (ISO), (as Sn)	(EH40/2005))	exposure limit 8 h (Work		0.1 mg/r
		Phort time value (Work	place exposure limit (EH4	0/2005))	0.2 mg/r
USA (TLV-ACGIH)					
Tin organic compounds, as Sn		Time-weighted average Short time value (TLV - /	exposure limit 8 h (TLV - Adopted Value)	Adopted Value)	0.1 mg/r 0.2 mg/r
b) National biological limit values of limit values are applicable and 2 Sampling methods of applicable and available it will 3 Applicable limit values when u of limit values are applicable and 4 DNEL/PNEC values	available these will be listed b be listed below. Ising the substance or mixtur	e as intended			
DNEL/DMEL - Workers					
trimethoxyvinylsilane					
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effe		2.6 mg/m ³		
	Acute systemic effects in		2.6 mg/m^3	,	
	Long-term systemic effe		0.2 mg/kg bw/day		
3-(trimethoxysilyl)propylamine	Acute systemic effects d	errildi	0.2 mg/kg bw/day		
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effe	cts inhalation	58 mg/m ³	Refildik	
	Long-term systemic effe		8.3 mg/kg bw/day	1	
bis(1,2,2,6,6-pentamethyl-4-pipe					
Effect level (DNEL/DMEL)	Type	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Value	Remark	
DNEL	Long-term systemic effe	cts inhalation	0.05 mg/m ³		
	Long-term systemic effe	cts dermal	0.07 mg/kg bw/da	ау	
dioctylbis(pentane-2,4-dionato-C	<u>),O')tin</u>				
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effe	cts inhalation	84 mg/m³		
	Acute systemic effects ir		84 mg/m³		
	Long-term local effects i	nhalation	0.091 mg/m ³		
	Long-term systemic effe	cts dermal	0.07 mg/kg bw/da	ау	
pyrithione zinc					
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effe	cts dermal	0.01 mg/kg bw/da	у	
DNEL/DMEL - General populatio	<u>n</u>				
trimethoxyvinylsilane Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effe	cts inhalation	0.7 mg/m ³	Kennark	
	Acute systemic effects in		0.7 mg/m ³		
	Long-term systemic effe		0.1 mg/kg bw/day	,	
	Acute systemic effects d		0.1 mg/kg bw/day		
	Long-term systemic effe		0.1 mg/kg bw/day		
3-(trimethoxysilyl)propylamine					
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effe	cts inhalation	17 mg/m³		
	Long-term systemic effe		5 mg/kg bw/day		
	Long-term systemic effe		5 mg/kg bw/day		
	ALL IN FEM THE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	hyl)-4-hydroxyphenyl]me	ethyl]butylmalonate		
bis(1,2,2,6,6-pentamethyl-4-pipe					
Effect level (DNEL/DMEL)	Туре		Value	Remark	
	Type Long-term systemic effe		0.01 mg/m ³	Remark	
Effect level (DNEL/DMEL)	Type Long-term systemic effe Long-term systemic effe	<mark>ct</mark> s dermal	0.01 mg/m³ 33 μg/kg bw/day	Remark	
Effect level (DNEL/DMEL) DNEL	Type Long-term systemic effe	<mark>ct</mark> s dermal	0.01 mg/m ³	Remark	
Effect level (DNEL/DMEL) DNEL PNEC	Type Long-term systemic effe Long-term systemic effe	<mark>ct</mark> s dermal	0.01 mg/m³ 33 μg/kg bw/day	Remark	
Effect level (DNEL/DMEL) DNEL PNEC trimethoxyvinylsilane	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe	<mark>ct</mark> s dermal	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL PNEC trimethoxyvinylsilane Compartments	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe	cts dermal cts oral	0.01 mg/m³ 33 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL PNEC trimethoxyvinylsilane Compartments Fresh water	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg	cts dermal cts oral /I	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL DNEL PNEC trimethoxyvinylsilane Compartments Fresh water Marine water	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 m	cts dermal cts oral /l g/l	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL DNEL PNEC trimethoxyvinylsilane Compartments Fresh water Marine water STP	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 mg	cts dermal cts oral /I g/I I	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL DNEL Compartments Fresh water Marine water STP Fresh water sediment	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 m 6.6 mg/ 1.3 mg/	cts dermal cts oral /I g/I kg sediment dw	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL DNEL PNEC trimethoxyvinylsilane Compartments Fresh water Marine water STP	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 m 6.6 mg/ 1.3 mg/ 0.13 mg/	cts dermal cts oral /I g/I I	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL DNEL Compartments Fresh water Marine water STP Fresh water sediment Marine water sediment	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 m 6.6 mg/ 1.3 mg/ 0.13 mg/	cts dermal cts oral /l g/l kg sediment dw /kg sediment dw	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day		
Effect level (DNEL/DMEL) DNEL DNEL Compartments Fresh water Marine water STP Fresh water sediment Marine water sediment	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 m 6.6 mg/ 1.3 mg/ 0.13 mg/	cts dermal cts oral /l g/l kg sediment dw /kg sediment dw	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day	ark	
Effect level (DNEL/DMEL) DNEL DNEL Compartments Fresh water Marine water STP Fresh water sediment Marine water sediment Sil	Type Long-term systemic effe Long-term systemic effe Long-term systemic effe Value 0.36 mg 0.036 m 6.6 mg/ 1.3 mg/ 0.13 mg/	cts dermal cts oral /l g/l kg sediment dw /kg sediment dw	0.01 mg/m³ 33 μg/kg bw/day 3 μg/kg bw/day Rema	ark	

ompartments	Value	Remark
Fresh water	0.33 mg/l	
Marine water	0.033 mg/l	
Aqua (intermittent releases)	3.3 mg/l	
STP	13 mg/l	
Fresh water sediment	1.2 mg/kg sediment dw	
Marine water sediment	0.12 mg/kg sediment dw	
Soil	0.045 mg/kg soil dw	
Dral	44.4 mg/kg food	
(1,2,2,6,6-pentamethy <mark>l-4-piperidyl) [[3</mark>	<mark>3,5-bis(1,1-dimethylet</mark> hyl)-4-hydroxyphenyl]methyl]b	utylmalonate
Compartments	Value	Remark
Fresh water	0 mg/l	
Marine water	0 mg/l	
Aqua (intermittent releases)	0.61 mg/l	
STP	1 mg/l	
Fresh water sediment	504.4 mg/kg sediment dw	
Marine water sediment	50.44 mg/kg sediment dw	
Soil	1 mg/kg soil dw	
octylbis(pentane-2,4-dionato-O,O')tin		
Compartments	Value	Remark
Fresh water	0.026 mg/l	
Marine water	0.0026 mg/l	
Aqua (intermittent releases)	0.26 mg/l	
STP	1 mg/l	
Fresh water sediment	0.155 mg/kg sediment dw	
Marine water sediment	0.0155 mg/kg sediment dw	
Soil	0.0158 mg/kg soil dw	
rithione zinc		
Compartments	Value	Remark
Fresh water	90 ng/l	
Marine water	90 ng/l	
	0.01 mg/l	
STP		
Fresh water sediment	0.0095 mg/kg sediment dw	
	0.0095 mg/kg sediment dw 0.0095 mg/kg sediment dw 8.85 mg/kg soil dw	

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	Mild odour
	Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Non combustible
Reason for revision: 2.2	Publication date: 2015-01-06

Revision number: 0101

Date of revision: 2017-02-09

Product number: 55258

	r	-				
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				
		organic solvents ; soluble				
Relative density		1.053 ; 20 °C				
Decomposition tempera	ture	No data available				
Auto-ignition temperatu	re	No data available				
Explosive properties		No chemical group associated with explosive properties				
Oxidising properties		Not classified				
pН		No data available				
9.2. Other information						
Absolute density		<mark>1053 kg/m³ ;</mark> 20 °C				
CTION 10: Stability	and reactivity					
10.1. Reactivity No data available.						
10.2. Chemical stability	ditions					

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** Combustible materials.
- **10.6. Hazardous decomposition products** On burning: release of silicon oxides, carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1.1 Information on toxicological effects 11.1.1 Test results

Acute toxicity

SEC

Fix All Crystal

No (test)data on the mixture available

trimethoxyvinylsilane

Route of exposure	Parameter		Parameter		Parameter		Parameter		Parameter		Method	Value	Exposure time	Species	Value	Remark
							determination									
Oral	LD50			7120 mg/kg bw - 7236 mg/kg bw		Rat (male/female)	Experimental value									
Dermal	LD50		Equivalent to OECD 402	3259 mg/kg bw	24 h	Rabbit (female)	Converted value									
Inhalation (vapours)	LC50		Equivalent to OECD 403	16.81 mg/l	4 h	Rat (male/female)	Experimental value									

3-(trimethoxysilyl)propylamine

Route of exposure	Parameter		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	<mark>> 5 ppm</mark>	6 h	Rat (male)	Read-across	
Inhalation (vapours)	LC50		OECD 403	<mark>> 16 ppm</mark>	6 h	Rat (female)	Read-across	

Reason for revision: 2.2

Publication date: 2015-01-06 Date of revision: 2017-02-09

Route of exposure	Para	neter	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	<mark>> 460 m</mark> g/m ³ air	4 h	Rat (male/female)	Experimental value	

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

	Route of exposure	Parameter		Method	Value	Exposure time	Species	Value	Remark
								determination	
	Oral	LD50)	OECD 423	<mark>2500 mg</mark> /kg		Rat (female)	Experimental value	
	Dermal	LD50)	OECD 402	<mark>> 2000 m</mark> g/g	24 h	Rat (male/female)	Experimental value	
	Inhalation (vapours)	LC50)	Equivalent to OECD 403	1224 ppm	4 h	Rat (male/female)	Experimental value	
ovr	ithione zinc								

pyrithione zinc

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50	OECD 401	<mark>269 mg/</mark> kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	EPA OPP 81-2	<mark>> 2000 m</mark> g/kg	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	1.03 mg/l air	4 h	Rat (male/female)	Experimental value	
lgement is based on th	ne rel <mark>evant i</mark>	ngredients					

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Fix All Crystal

No (test)data on the mixture available

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405	24 h	1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irrit <mark>ating</mark>		24 h	24; 48; 72 hours	Rabbit	Experimental value	
trimethoxysilyl)prop	oylamine						
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	Irritatin <mark>g</mark>	OECD 404	3 minutes - 240 minutes	1; 24; 48; 72; 168 hours	Rat	Calculated value	
(1,2,2,6,6-pentame	thyl-4-pi <mark>peridyl) [[</mark>	3,5-bis(1,1-dimethy	<mark>/lethyl)-4</mark> -hydroxyphe	enyl]methyl]butylmal	onate		
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Еуе	Not irrit <mark>ating</mark>	Equivalent to OECD 405	30 seconds	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irrit <mark>ating</mark>	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Experimental value	
octylbis(pentane-2,4	-dionato-0,0')tin						
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 irrit <mark>ating</mark>	OECD 404	4 h	1 hour	Rabbit	Experimental value	
rithione zinc							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious <mark>eye</mark> damage	OECD 405	24 h	24 hours	Rabbit	Experimental value	
Lyc	uumuge				Rabbit		

Not classified as irritating to the skin Not classified as irritating to the eyes

Respiratory or skin sensitisation

Fix All Crystal

No (test)data on the mixture available

Reason for revision: 2.2

Publication date: 2015-01-06

Date of revision: 2017-02-09

Revision number: 0101

	e Result	Method	Expos	ure time	Observation time point		Value determination	Remark
Skin	Not sens <mark>itizin</mark>	g OECD 406			24; 48 hours	Guinea pig (male/female)	Experimental value	
3-(trimethoxysilyl)p Route of exposure		Method	Expos	ure time	Observation time point	Species	Value determination	Remark
Skin	Not sens <mark>itizin</mark>	-	72 h		24; 48 hours	Guinea pig (male/female)	Experimental value	
bis(1,2,2,6,6-pentar Route of exposure		lyl) [[3,5-bis(1,1-c Method		<u>4-hydroxyph</u> ure time	nenyl]methyl]butylma Observation time point	lonate Species	Value determination	Remark
Skin	Not sens <mark>itizin</mark>	g Other			P 0	Guinea pig (male/female)	Experimental value	
dioctylbis(pentane- Route of exposure		<u>'')tin</u> Method	Expos	ure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizi <mark>ng</mark>	OECD 429			point	Mouse (female)	Experimental value	
ovrithione zinc Route of exposure	e Result	Method	Expos	ure time	Observation time	Species	Value determination	Remark
Skin	Not sensitizin				24; 48 hours	Guinea pig	Experimental value	
Inhalation						(female)	Data waiving	
fic target organ tox All Crystal o (test)data on the i	mixture availabl	e						
		h	L			_ L		- L
rimethoxyvinylsilar Route of exposi		Method	Value	Organ	Effect	Exposure time	Species	Value determinat
Route of exposi Oral (stomach tube)	ure Parameter	OECD 422	62.5 mg/kg bw/day	Organ Bladder	Histopathologi al changes	c	Rat (male)	determina Experiment value
Route of expose Oral (stomach tube) Inhalation (vapours)	LOAEL NOAEC		62.5 mg/kg	_	Histopathologi	· · ·	Rat (male)	determina Experiment value
Route of expose Oral (stomach tube) Inhalation (vapours)	LOAEL NOAEC	OECD 422 Subchronic	62.5 mg/kg bw/day 10 ppm Value	_	Histopathologi al changes	c 14 weeks (6h/d	Rat (male) ay, 5 Rat	determinat Experiment value Experiment value Value
Route of expose Oral (stomach tube) Inhalation (vapours) 3-(trimethoxysilyl)p	LOAEL NOAEC	OECD 422 Subchronic toxicity test	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day	Bladder	Histopathologi al changes No effect	c 14 weeks (6h/d days/week) Exposure time 92 day(s)	ay, 5 Rat (male) ay, 5 Rat (male/female)	determina Experiment value Experiment value Value determina
Route of expose Oral (stomach tube) Inhalation (vapours) 3-(trimethoxysilyl)p Route of expose Oral (stomach tube) Oral (stomach tube)	Ire Parameter LOAEL NOAEC Iropylamine Ire Parameter LOAEL NOAEL NOAEL	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day	Bladder Drgan Liver Liver	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s)	ay, 5 Rat (male) ay, 5 Rat (male/female) Rat (male/female) Rat (male/female)	determina Experiment value Experiment value Value determina Read-acros
Route of expositions of exposition of exposition of exposition (vapours) 3-(trimethoxysilyl)p Route of exposition	Ire Parameter LOAEL NOAEC INOAEC IRE Parameter LOAEL LOAEL INOAEL INOAEL Sol) IRT (inhalation risk test)	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m ³ ai	Bladder Bladder Organ Liver Liver Liver Liver	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea and lung	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 4 weeks (6h/da days/week)	ay, 5 Rat (male) ay, 5 Rat (male/female) Rat (male/female) Rat (male/female)	determinat Experiment value Experiment value Value determinat Read-acros
Route of exposition of exposition of exposition of exposition of exposition exposition of exposition	Ire Parameter LOAEL NOAEC INOAEC IRE Parameter LOAEL IRE Parameter INOAEL INOAE	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412 VI) [[3,5-bis(1,1-c)	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m ³ ai	Bladder Bladder Organ Liver Liver Lungs 4-hydroxyph	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 4 weeks (6h/da days/week) lonate	Aat (male) ay, 5 Rat (male/female) Species Rat (male/female) Rat (male/female) y, 5 Rat (male)	determina Experiment value Experiment value Value determina Read-acros
Route of exposition of exposit	Ire Parameter LOAEL NOAEC INOAEC IRE Parameter LOAEL INOAEL INOAE	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412 (v)) [[3,5-bis(1,1-c) Method	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m³ ai iimethylethyl)- Value	Bladder Bladder Organ Liver Liver Lungs A-hydroxyph Organ	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea and lung menyl]methyl]butyIma	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 4 weeks (6h/da days/week) lonate Exposure time	Aat (male) ay, 5 Rat (male/female) Species Rat (male/female) Rat (male/female) y, 5 Rat (male) Species	determina Experiment value Experiment value Value determina Read-acros Read-acros Read-acros
Route of expositions of exposition of exposi	Ire Parameter LOAEL NOAEC INOAEC IRE Parameter LOAEL IRE Parameter INOAEL INOAE	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412 VI) [[3,5-bis(1,1-c)	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m³ ai	Bladder Bladder Organ Liver Liver Lungs 4-hydroxyph	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea and lung tenyl]methyl]butylma	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 4 weeks (6h/da days/week) lonate Exposure time	Rat (male) ay, 5 Rat (male/female) Species Rat (male/female)	determinat Experiment value Experiment value Value determinat Read-acros Read-acros Read-acros
Route of exposition of exposit	Ire Parameter LOAEL NOAEC INOAEC IRE Parameter LOAEL INOAEL INOAE	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412 (v)) [[3,5-bis(1,1-c) Method	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m³ ai dimethylethyl)- Value 10 mg/kg	Bladder Bladder Organ Liver Liver Lungs A-hydroxyph Organ	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea and lung tenyl]methyl]butylma Effect odes Enlargement of the lymph glands Enlargement/a ection of the	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 92 day(s) 4 weeks (6h/da days/week) 10nate Exposure time f 28 day(s)	Rat (male) ay, 5 Rat (male/female) Species Rat (male/female) Rat (male/female) y, 5 Rat (male) Species Rat (male)	determinat Experiment value Experiment value Value determinat Read-acros Read-acros Read-acros
Route of exposition Oral (stomach tube) Inhalation (vapours) 3-(trimethoxysilyl)p Route of exposition Oral (stomach tube) Oral (stomach tube) Inhalation (aero Dist (1,2,2,6,6-pentar Route of exposition Oral (stomach tube) Oral (stomach	Ire Parameter LOAEL NOAEC NOAEC Iropylamine Ire Parameter LOAEL NOAEL NOAEL NOAEL Sol) IRT (inhalation risk test) nettyl-4-piperid Ire Parameter LOAEL LOAEL LOAEL	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412 VI) [[3,5-bis(1,1-c) Method OECD 421	 62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m³ ai 1imethylethyl)- Value 10 mg/kg bw/day 10 mg/kg 10 mg/kg 	Bladder Organ Liver Liver Liver Lungs A-hydroxyph Organ Lymph no	Histopathologi al changes No effect Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea and lung henyl]methyl]butyIma Effect bdes Enlargement of the lymph glands Enlargement/a	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 10 ate Exposure time f 28 day(s) 16 28 day(s)	Rat (male) ay, 5 Rat (male/female) Species Rat (male/female) Rat (male/female) y, 5 Rat (male) Species Rat (male/female) Rat (male/female)	determinat Experiment value Experiment value Value determinat Read-acros Read-acros Read-acros Read-acros
Route of exposition of exposit	Ire Parameter LOAEL NOAEC NOAEC LOAEL Ire Parameter LOAEL NOAEL NOAEL IRT (inhalation risk test) IRT (inhalation risk test)	OECD 422 Subchronic toxicity test Method OECD 408 OECD 408 Equivalent to OECD 412 (y)) [[3,5-bis(1,1-c) Method OECD 421 OECD 421	62.5 mg/kg bw/day 10 ppm Value 600 mg/kg bw/day 200 mg/kg bw/day 147 mg/m³ ai dimethylethyl)- Value 10 ng/kg bw/day 10 mg/kg bw/day 10 mg/kg bw/day 10 mg/kg bw/day 10 mg/kg bw/day 10 mg/kg	Bladder Organ Liver Liver Liver Lungs Lymph no	Effect Clinical signs; mortality; bod weight; food consumption No effect Lesions in larynx, trachea and lung tenyllmethyllbutylma Effect Ddes Enlargement of the lymph glands Enlargement/a ection of the liver Spleen enlargement/a	c 14 weeks (6h/d days/week) Exposure time 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 92 day(s) 10 ate Exposure time f 28 day(s) 16 28 day(s)	Rat (male) ay, 5 Rat (male/female) ay, 5 Rat (male/female) Species Rat (male/female) Rat (male/female) Rat (male/female) y, 5 Rat (male) Rat (male/female) Rat (male) Rat (male/female) Rat (male) Rat (male/female) Rat (male/female) Rat (male/female) Rat (male/female) Rat (male/female) Rat (male/female) Rat (male/female) Rat (male/female)	determinat Experiment value Experiment value Value determinat Read-acros Read-acros Read-acros Read-acros Value determinat Experiment value Experiment value

Route of exposure	Parameter	Method	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
thione zinc								-
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 453	0.5 mg/kg bw/day			98 weeks (daily) - 104 weeks (daily)	Rat (male/female)	Experimental value
Dermal	NOAEL	EPA OPP 82-3	100 mg/kg bw/day		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Dermal	LOAEL	EPA OPP 82-3	1000 mg/kg bw/day		Haematological changes	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
		EPA OPPTS	6 mg/m ³ air		Respiratory	3 weeks (6h/day, 5	Rat	Experimental
Inhalation (dust)	LOAEL	870.3465	_		difficulties	days/week)	(male/female)	value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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

Result	Method	Test substrate	Effect	Value determination
Positive with metabolic activation, positive without metabolic activation	OECD 473	CHL/IU cells	Chromosome aberrations	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)		Experimental value
trimethoxysilyl)propylamine				
Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster lung fibroblasts (V79)	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 471	Escherichia coli	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
		hylethyl)-4-hydroxyphenyl]methyl]butylm		
Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Ames test	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value
Positive with metabolic activation, positive without metabolic activation	OECD 473	Chinese hamster ovary (CHO)		Experimental value
for revision: 2.2			Publication date: 2015-01-0	6

Revision number: 0101

Result	Method	Test substrate	Effect	Value determination
Negative	OECD 476	Chinese hamster lung fibroblasts (V79)	No effect	Experimental value
Negative	OECD 473	Chinese hamster lung fibroblasts (V79)	No effect	Experimental value
Negative	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
thione zinc				
Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation	OECD 476	Chinese hamster lung fibroblasts (V79)	No effect	Experimental value
Negative with metabolic activation	OECD 473	Chinese hamster lung fibroblasts (V79)	Chromosome aberrations	Experimental value

Mutagenicity (in vivo)

Fix All Crystal

No (test)data on the mixture available

trimethoxyvinylsilane

	Result	Method	Expos	ure time	Test substrate	Organ	Value determination
	Negative	EPA 560/6-83-001			Mouse (male/female)		Experimental value
<u>3-(t</u>	rimethoxysilyl)propylamine						
	Result	Method	Expos	ure time	Test substrate	Organ	Value determination
	Negative	Equivalent to OECD			Mouse (male/female)	Bone marrow	Read-across

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

0.101		0)0/01						
	Result		Method Exposure time		Test substrate	Organ	Value determination	
	Negative		OECD 474			Mouse (male)	Bone marrow	Experimental value
pyri	thione zinc							
	Result		Method	Expos	ure time	Test substrate	Organ	Value determination
	Negative		OECD 474			Mouse (male/female)	Bone marrow	Experimental value
	and a second second second second		de la companya de la					

Judgement is based on the relevant ingredients

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Fix All Crystal

No (test)data on the mixture available

<u>3-(t</u>	rimethoxysily)propylamine							
	Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	5	Value determination
	Dermal	NOAEL	Carcinogenic toxicity study	0/			No carcinogenic effect		Inconclusive, insufficient data
pyr	ithione zinc								
	Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	5	Value determination
	Oral	NOAEL	OECD 453	> 2.1 mg/kg bw	• • • • • • • •		No carcinogenic effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

ctive toxicity

Reproductive toxicity		
<u>Fix All Crystal</u> No (test)data on the mixture a	available	
Reason for revision: 2.2		Publication date: 2015-01-06
		Date of revision: 2017-02-09

nethoxyvinylsilane	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	. al al litero los				op conce		e. gan	determinatio
Developmental toxicity	NOAEL	EPA OTS 798.4350	100 ppm	10 days (gestation, 6h/day)	Rat (female)	No effect		Experimenta value
Maternal toxicity	NOAEL	EPA OTS 798.4350	25 ppm	10 days (gestation, 6h/day)	Rat (female)	No effect		Experimenta value
Effects on fertility	NOAEL (P)	OECD 422	1000 mg/kg bw/day	≤ 43 day(s)	Rat (male)	No effect		Experimenta value
	NOAEL (P)	OECD 422	250	≥ 60 day(s)	Rat (female)	No effect		Experimenta value
rimethoxysilyl)propylam			h	i		haran .	-	
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatio
Developmental toxicity	NOAEL	EPA OTS 798.4900	100 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Read-across
	LOAEL	EPA OTS 798.4900	600 mg/kg bw/day	14 days (gestation, daily)	Rat	Minor skeletal variations	Skeleton	Read-across
Maternal toxicity	NOAEL	Other	100 mg/kg bw/day	14 day(s)	Rat	No effect		Read-across
	LOAEL	Other	600 mg/kg bw/day	14 day(s)	Rat	Clinical signs; mortality; body weight; food consumption	General	Read-across
Effects on fertility	NOAEL	OECD 408	600 mg/kg bw/day	92 day(s)	Rat (male/female)	No effect		Read-across
1,2,2,6,6-pentamethyl-4	-piperidyl) [[3.5-	bis(1.1-dimethyl		phenvllmethvllb				
	Parameter	Method	Value	Exposure time		Effect	Organ	Value determinati
Developmental toxicity								Data waiving
Maternal toxicity								Data waiving
Effects on fertility	NOAEL	Equivalent to OECD 421	≥ 10 mg/kg bw/day	36 day(s) - 50 day(s)	Rat (male/female)	No effect		Experimenta value
ctylbis(pentane-2,4-diona	ato-0,0')tin							
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
Maternal toxicity	NOAEL	OECD 422	0.3 mg/kg bw/day - 0.5 mg/kg bw/day	28 day(s)	Rat	No effect	Thymus	Experimenta 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		Experimenta value
ithione zinc			0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,					
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
Developmental toxicity	LOAEL	EPA OPP 83-3	1.5 mg/kg bw/day	13 day(s)	Rabbit (female)	Increased post- implantation loss	Foetus	Experimenta value
	NOAEL	EPA OPP 83-3	0.5 mg/kg bw/day	13 day(s)	Rabbit (female)	No effect		Experimenta value
Maternal toxicity	LOAEL	EPA OPP 83-3	1.5 mg/kg bw/day	13 day(s)	Rabbit (female)	Weight changes		Experimenta value
	NOAEL	EPA OPP 83-3	0.5 mg/kg bw/day	13 day(s)	Rabbit (female)	No effect		Experimenta value
					Rat	Reproductive		Experimenta
Effects on fertility	LOAEL (P/F1)	EPA OPPTS 870.3800	1.4 mg/kg bw/day - 2.8 mg/kg bw/day		(male/female)	performance		value

<u>Conclusion</u>

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Fix All Crystal

No (test)data on the mixture available

Reason for revision: 2.2

Publication date: 2015-01-06 Date of revision: 2017-02-09

Revision number: 0101

Chronic effects from short and long-term exposure

Fix All Crystal No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Fix All

	ailab	ле							
trimethoxyvinylsilane									
		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes		LC50		191 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea		EC50	EU Method C.2	168.7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aqu plants	Jatic	EC50	EPA 67014- 73-0	210 mg/l	7 day(s)	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity fish									Data waiving
Long-term toxicity aquatic crustacea		NOEC	OECD 211	28.1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity sediment organism	s							T	Data waiving
		Parameter	Method	Vi	alue	Duration	Species	5	Value determination
Toxicity soil macro-organism					140				Data waiving
Toxicity soil micro-organism									Data waiving
Toxicity terrestrial plants									Data waiving
Toxicity other terrestrial organisms									Data waiving
Toxicity birds									Data waiving
3-(trimethoxysilyl)propylamin	e								
	_	Parameter	Method	Value	Duration	Species	5	Fresh/salt water	Value determinatio
Acute toxicity fishes		LC50	OECD 203	> 934 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity crustacea		EC50	OECD 202	331 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aqu plants	latic	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
bis(1,2,2,6,6-pentamethyl-4-p	iperi	dyl) [[3,5-bis(1,1-dimethyle	thyl)-4-hydrox	yphenyl]meth	yl]butylmalonate			_
		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determinatio
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			Other	61 mg/l	72 h	Scenedesmus	Static system		Experimental value;

Reason for revision: 2.2

Long-term toxicity aquatic

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

Toxicity algae and other aquatic EC50

Toxicity aquatic micro-

Acute toxicity fishes

Acute toxicity crustacea

crustacea

organisms

NOEC

C50

LC50

EC50

Parameter

OECD 211

OECD 209

Method

OECD 203

OECD 202

OECD 201

2 µg/l

Value

<mark>86 m</mark>g/l

<mark>58.6</mark> mg/l

<mark>300 m</mark>g/l

<mark>> 100</mark> mg/l

21 day(s)

Duration

96 h

48 h

24 h

3 h

Publication date: 2015-01-06 Date of revision: 2017-02-09

Semi-static

Static system

Test design

Static system

Static system

Static system

system

Fresh water

Fresh water

Fresh/salt

water

Experimental value;

Experimental value

Value determination

Experimental value

Experimental value

Experimental value

GLP

Daphnia magna

Activated sludge

Daphnia magna

Scenedesmus

subspicatus

Species

Pisces

Revision number: 0101

plants

Product number: 55258

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	0.0104 mg/l	96 h	Brachydanio rerio			Experimental value
Acute toxicity crustacea	EC50	OECD 202	0.051 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	0.051 mg/l	72 h	Pseudokirchnerie Ila subcapitata			Experimental value
	NOEC	OECD 201	0.0149 mg/l	72 h	Pseudokirchnerie lla subcapitata			Experimental value
Long-term toxicity fish	NOEC	OECD 215	0.00125 mg/l		Brachydanio rerio			Experimental value
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.00213 mg/l	21 day(s)	Daphnia magna			Experimental value
Toxicity aquatic micro-	EC50	OECD 209	2.4 mg/l	3 h	Activated sludge	Static system		Experimental value; GLP

Classification is based on the relevant ingredients

Conclusion

Harmful to aquatic life with lon<mark>g lasting effects.</mark>

12.2. Persistence and degradability

Method	Value	Duration	Value determination
OECD 301F: Manometric Respi	rometry Test 51 %: GLP	28 day(s)	Experimental value
hototransformation air (DT50			1 1 2 2 2 2 2 2 2
Method	Value	Conc. OH-radicals	Value determination
	0.56 day(s)	500000 /cm ³	Calculated value
Biodegradation soil			
Method	Value	Duration	Value determination
			Data waiving
lalf-life water (t1/2 water)			
Method	Value	Primary	Value determination
Method	Value	degradation/mineralisation	
OECD 111: Hydrolysis as a fund	tion of pH < 2.4 h; pH = 7	Primary degradation	Weight of evidence
trimethoxysilyl)propylamine			
Biodegradation water			
Method	Value	Duration	Value determination
EU Method C.4	67 %; GLP	28 day(s)	Experimental value
lalf-life water (t1/2 water)			-Aperintental value
Method	Value	Primary	Value determination
		degradation/mineralisation	
	4 h; pH = 7	Primary degradation	QSAR
(1,2,2,6,6-pentamethyl-4-piperi	dyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxypho		- T.
Biodegradation water			
Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Tes		28 day(s)	Experimental value
octylbis(pentane-2,4-dionato-0,		=======================================	
	<u>- /</u>		
Biodegradation water			
Biodegradation water	Value	Duration	Value determination
Method	Value	Duration 28 day(s)	Value determination
Method OECD 301F: Manometric Respi		Duration 28 day(s)	Value determination Experimental value
Method OECD 301F: Manometric Respi rithione zinc			
Method OECD 301F: Manometric Respi rithione zinc Biodegradation water	rometry Test 9 %; GLP	28 day(s)	Experimental value
Method OECD 301F: Manometric Respi rithione zinc Biodegradation water Method	rometry Test 9 %; GLP	28 day(s) Duration	Experimental value
Method OECD 301F: Manometric Respirithione zinc Biodegradation water Method OECD 301B: CO2 Evolution Tes	rometry Test 9 %; GLP Value t 39 %; GLP	28 day(s) Duration 28 day(s)	Experimental value Value determination Experimental value
Method OECD 301F: Manometric Respirithione zinc Biodegradation water Method OECD 301B: CO2 Evolution Tes OECD 303A: Activated Sludge U	rometry Test 9 %; GLP Value t 39 %; GLP Jnits ≥ 98.8 %; Activated sludge	28 day(s) Duration	Experimental value
Method OECD 301F: Manometric Respirithione zinc Biodegradation water Method OECD 301B: CO2 Evolution Tes OECD 303A: Activated Sludge U hototransformation air (DT50 a	rometry Test 9 %; GLP Value t 39 %; GLP Jnits ≥ 98.8 %; Activated sludge air)	28 day(s) Duration 28 day(s) 35 day(s)	Experimental value Value determination Experimental value Experimental value
Method OECD 301F: Manometric Respirithione zinc Biodegradation water Method OECD 301B: CO2 Evolution Tes OECD 303A: Activated Sludge I hototransformation air (DT50 a Method	rometry Test 9 %; GLP Value t 39 %; GLP Jnits ≥ 98.8 %; Activated sludge air) Value	28 day(s) Duration 28 day(s)	Experimental value Value determination Experimental value Experimental value Value determination
Method OECD 301F: Manometric Respirithione zinc Biodegradation water Method OECD 301B: CO2 Evolution Tes OECD 303A: Activated Sludge U Phototransformation air (DT50 a Method AOPWIN	rometry Test 9 %; GLP Value t 39 %; GLP Jnits ≥ 98.8 %; Activated sludge air) Value 8.69 h	28 day(s) Duration 28 day(s) 35 day(s)	Experimental value Value determination Experimental value Experimental value
Method OECD 301F: Manometric Respiration ithione zinc Biodegradation water Method OECD 301B: CO2 Evolution Tes OECD 303A: Activated Sludge U hototransformation air (DT50 a Method AOPWIN Phototransformation water (DT	rometry Test 9 %; GLP Value t 39 %; GLP Jnits ≥ 98.8 %; Activated sludge air) Value 8.69 h 50 water)	28 day(s) Duration 28 day(s) 35 day(s) Conc. OH-radicals	Experimental value Value determination Experimental value Experimental value Value determination Calculated value
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Method OECD 301F: Manometric Respiritione zinc Biodegradation water Method OECD 301B: CO2 Evolution Test OECD 303A: Activated Sludge to Phototransformation air (DT50 at Method AOPWIN Phototransformation water (DT Method ODECD 303A: Activated Sludge to Phototransformation air (DT50 at Method AOPWIN Phototransformation water (DT Method Other Balf-life water (t1/2 water)	rometry Test 9 %; GLP Value t 39 %; GLP Jnits ≥ 98.8 %; Activated sludge air) Value 8.69 h 50 water) 50 water) Value < 7 minutes	28 day(s) Duration 28 day(s) 35 day(s) Conc. OH-radicals Conc. OH-radicals	Experimental value Value determination Experimental value Experimental value Value determination Calculated value Value determination Experimental value
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				ГІХ	All Cr	ysta	11		
nclusion Contains non readi	ly biodegra	dable comp	oonent(s)						
.3. Bioaccumu	lative po	tential						_	
Il Crystal	auro pe	lonna							
g Kow				h			<u> </u>		here here and
/lethod		Remark	able (mixture)	Value			Temperatu	re	Value determination
rimethoxyvinylsila		not applied						_	
BCF other aquati	_	s			-				
Parameter	Metho		Value	Du	ration	Speci	es		Value determination
Log Kow	_				-				Data waiving
Method		Remar	k	Va	lue	-	Tempe	rature	Value determination
KOWWIN		Calcula	ted	-2			20 °C		QSAR
-(trimethoxysilyl)	propylamine	2							_
Log Kow Method		Remar	k	Va	lue		Tempe	rature	Value determination
				0.2			20 °C		QSAR
is(1,2,2,6,6-penta BCF fishes	methyl-4-pi	iperidyl) [[3	,5-bis(1,1-dimethy	lethyl)-4	-hydroxyphen	yl]methyl]	butylmalor	<u>nate</u>	
Parameter	Metho	d	Value	Du	ration	Speci	es	_	Value determination
BCF	OECD :		24.3 - 437.1		day(s)		nus carpio		Experimental value
Log Kow			L	h/-		_	h		
Method OECD 107		Remar	ĸ	va 3.7	lue		Temper 23 °C	rature	Value determination Experimental value
OECD 117				> 6			23 °C		Experimental value
Other	2.4.1	0.01111		4.2			23 °C	_	Experimental value
ioctylbis(pentane- Log Kow	- <u>2,4-dionato</u>	<u>5-0,0')tin</u>							
Method		Remar	k	Va	lue		Tempe	rature	Value determination
		No data	a available						
vrithione zinc BCF other aquati	c organism	c .							
Parameter	Metho		Value	Du	ration	Speci	es		Value determination
BCF	OECD	305	7.87 - 11; Fresh	30	day(s)	Crass	ostrea sp.		Experimental value
Log Kow	_		weight						
Method		Remar	k	Va	lue		Tempe	rature	Value determination
OECD 107				0.9)	_	25 °C		Experimental value
<u>nclusion</u> Does not contain b 2. 4. Mobility in rimethoxyvinylsila	soil	tive compo	nent(s)						
(log) Koc									
Parameter					Method			Value	Value determination
Volatility (Henry'	s law cons	tant H)							Data waiving
Value		Method		Tem	perature	-	Remark		Value determination
8.72E-5 atm m ³				25 °(Estimated value
(log) Koc	metnyi-4-pi	peridyi) [[3	,5-bis(1,1-dimethy	letnyl)-4	-nyaroxypnen	yılmetnyi	butyimalor	<u>iate</u>	
Parameter					Method	_		Value	Value determination
log Koc					SRC PCKOCW	IN v2.0		3.04 - 8.1	Calculated value
vrithione zinc (log) Koc									
Parameter					Method			Value	Value determination
Кос					OECD 106			1700 - 25000	
log Koc Volatility (Henry'	s law cons	tant U)			-	_		3.2 - 4.4	Calculated value
Value	S LAW COILS	Method		Tem	perature		Remark		Value determination
< 0.5E-4 Pa.m³/	'mol								Calculated value
nclusion									

Contains component(s) that adsorb(s) into 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

Fix All Crystal

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

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014) Ozone-depleting potential (ODP)

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

3-(trimethoxysilyl)propylamine

Ground water

Ground water pollutant

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.

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.

13.1.2 Disposal methods

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. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

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

15 01 10* (packaging c<mark>ontaining residues of or contaminated</mark> by dangerous substances).

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number			
Transport		Not subject	
14.2. UN proper shipping na			
14.3. Transport hazard class	(es)		
Hazard identification nu	mber		
Class			
Classification code			
14.4. Packing group			
Packing group			
Labels			
14.5. Environmental hazards	\$		
Environmentally hazardo	ous substance mark	no	
14.6. Special precautions for	user		
Special provisions			
Limited quantities			
14.7. Transport in bulk acco	rding to Annex II of Marpol and the IBC	ode	
Annex II of MARPOL 73/	78		

SECTION 15: Regulatory information

15.1. Safety, health and	environmental regulations/le	dislation st	pecific for	the substan	ice or mixture
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · ·				

European legislation:

Reaso

Revisi

VOC content Directive 2010/75/EU

	VOC content		Remark	
	4.6 %			
	48.4 g/l			
Eu	ropean drinking water s	tandards (Directive 98/83/EC)		
n for I	revision: 2.2		Publication date: 2015-01-06 Date of revision: 2017-02-09	
on nu	mber: 0101		Product number: 55258 15 / 1	8

nurithiono zinc				
pyrithione zinc Parameter		Parametric value	lote	Reference
Pesticides		0,1 μg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality o
		<i>h</i>		water intended for human consumption.
Pesticides — Total		0,5 μg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality o water intended for human consumption.
	(s) subjec			tion (EC) No 1907/2006: restrictions on the manufacture, placing on the market
and use of certain dan methoxyvinylsilane	-	substances, mixtures and a quid substances or mixtures w		1. Shall not be used in:
fremozyvinysiane (trimethoxysilyl)propylamine octylbis(pentane-2,4-dionato-0,0	ré D cr (E ((ty ai F; (t (t c (t (t (t (t c) c (c) c (c) c c c c c c c c c c c	quid substances of mixtures we garded as dangerous in accord irective 1999/45/EC or are fulf riteria for any of the following l r categories set out in Annex I i :C) No 1272/2008: a) hazard classes 2.1 to 2.4, 2.6 (pes A and B, 2.9, 2.10, 2.12, 2. nd 2, 2.14 categories 1 and 2, 2) hazard classes 3.1 to 3.6, 3.7 (ffects on sexual function and fe evelopment, 3.8 effects other iffects, 3.9 and 3.10; a) hazard class 4.1; b) hazard class 5.1.	dance with illing the nazard classes to Regulation and 2.7, 2.8 13 categories 1 13 categories 1 13 types A to adverse ertility or on	 ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, tricks and jokes, games for one or more participants, or any article intended to be used as such, even wi ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless
octylbis(pentane-2,4-dionato-0,0		rganostannic compounds		 Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.2. Shall not be placed or the market, or used, as substances or in mixtures where the substance or mixture acts as biocide 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 2011 except for articles that were already in use in the Community before that date.5. Dibutylt (DBT) compounds:
n for revision: 2.2				Publication date: 2015-01-06 Date of revision: 2017-02-09
				Product number: 55258 16 / 1

	Fix All (Crystal
		articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin: - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits). (b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.
category 1, 2 or 3, substanc with wat 2 or 3, py pyrophor whether	ces classified as flammable gases / 1 or 2, flammable liquids categories , flammable solids category 1 or 2, ces and mixtures which, in contact ter, emit flammable gases, category 1, yrophoric liquids category 1 or ric solids category 1, regardless of they appear in Part 3 of Annex VI to gulation or not.	 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, 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 be placed on the market unless they conform to the requirements indicated.
		D; La mention "D" signifie que la résorption de l'agent, via la peau, les
	<mark>uses ou les yeux, const</mark> itue une pa <mark>t direct que par présenc</mark> e de l'ager	artie importante de l'exposition totale. Cette résorption peut se faire tant par nt dans l'air.
<u>National legislation The Netherlands</u>		
	the Netherlands): KGA category 0	3
Netherlands)		
<u>National legislation France</u> <u>Fix All Crystal</u> No data available		
National legislation Germany		
	ification water polluting based on VwVwS) of 27 July 2005 (Anhang	the components in compliance with Verwaltungsvorschrift wassergefährdender
trimethoxyvinylsilane		+)
TA-Luft 5.2.5 3-(trimethoxysilyl)propylamine		
TA-Luft 5.2.5		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydr	oxyphenyl]methyl]butylmalonate
TA-Luft 5.2.1 dioctylbis(pentane-2,4-dionato-O,O')tin		
TA-Luft 5.2.5		
pyrithione zinc TA-Luft 5.2.1		
National legislation United Kingdom		
Fix All Crystal No data available		
dioctylbis(pentane-2,4-dionato-O,O')tin		
	npounds, organic, except Cyhexati	in (ISO), (as Sn); Sk
Other relevant data		
<u>Fix All Crystal</u> No data available		
dioctylbis(pentane-2,4-dionato-O,O')tin		
Skin absorption Tin orga	<mark>anic compounds, as Sn</mark> ; Skin; Dang	ger of cutaneous absorption
TLV - Carcinogen Tin orga	anic compounds, as Sn; A4	
Reason for revision: 2.2		Publication date: 2015-01-06
		Date of revision: 2017-02-09
Revision number: 0101		Product number: 55258 17/18

Г: +~1

The information limits CLP dioctylbis(pentane-2,4-dionato-O,O')tin C > 5 % Skin Sens. 1; H317 TIB Chemicals 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 state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and dis of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent vers 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 substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation 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 thir parties. This safety data sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consin 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 appli 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 the safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or whe		-	Fix All Cr	ystai	
Full text of any 14-statements referred to under headings 2 and 3: H226 Filmmable liquid and vapour. H337 Hardin 15 wallowed. H337 Hardin 15 wallowed. H337 Hardin 15 wallowed. H337 Hardin 15 wallowed. H337 May cause an allergic skin reaction. H338 Causes serious eve damage. H337 May cause damage to organs (Ibdder) through prolonged or repeated exposure if swallowed. H337 May cause damage to organs (Ibdder) through prolonged or repeated exposure if swallowed. H337 May cause damage to organs (Ibdder) through prolonged or repeated exposure if swallowed. H400 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H512 Cause farms of reduction of growth rate LCS0 Lethal Concentration 50 % LD50 Lethal Concentration 50 % LD50 Lethal Concentration 50 % LD50 Lethal Concentration 50 %			the mixture.		
H201 Tool: File H201 File H202 Lestal H203 </th <th>TION 16: Othe</th> <th>r information</th> <th></th> <th></th> <th></th>	TION 16: Othe	r information			
H301 Toxic if swallowed. H302 Hardl if swallowed. H315 Causes skin irration. H318 Causes serious eve damage. H314 May cause damage to organs (Immune system) if swallowed. H317 May cause damage to organs (Indired) through prolonged or repeated exposure. H317 May cause damage to organs (Ibadde) through prolonged or repeated exposure. if swallowed. H317 May cause damage to organs (Ibadde) through prolonged or repeated exposure. if swallowed. H410 Very toxic to aquatic life. H411 Harmful to aquatic life. H412 Harmful to aquatic life. H413 Derived Naimine Effect Level DNL Derived Naimine Effect Level NOAEL No Observed Afverse Effect Level NOEC No Observed Effect Concentration SV Studge Treatment Process Vv.8 Vv.8 very Persistent & Nerg Biaccumulative PHT Persistent & Noaccumulative & Tooic PHT	Full text of any H-state	ments referred to under headings 2	and 3:		
H32 Harmful if swallowed. H335 Cause an allergic skin relation. H337 May cause an allergic skin relation. H338 Harmful if inhaled. H337 May cause damage to organs (Immune system) if swallowed. H337 May cause damage to organs through prolonged or repeated exposure if swallowed. H337 May cause damage to organs (Immune system) if swallowed. H337 May cause damage to organs (Immune system) if swallowed. H337 May cause damage to organs (Immune system) if swallowed. H337 May cause damage to organs (Immune system) if swallowed. H337 May cause damage to organs (Immune system) if swallowed. H337 May cause damage to organs (Immune system) if swallowed. H340 Very toxic to aquatic life with long lasting effects. H314 Harmful to aquatic life. H315 Classification (Isocimal and packaging Globally Harmonised System in Europe) DNEL Derived Molinal Effect Level DNEL Derived Molinal Effect Level NO2C H20 Desized Adverse Effect Level NO2C Persistent, Bioaccumulative & Toxic PNIC Presistent, Bioaccumulative & Toxic PNIC	H226 Flammable	iquid and vapour.			
H315 Causes skin irration. H317 May cause an allergic skin reaction. H318 Causes serious eve damage. H328 Hauses standing to organs (timmune system) if swallowed. H317 May cause damage to organs (though prolonged or repeated exposure. H337 May cause damage to organs (though prolonged or repeated exposure. H337 May cause damage to organs (though prolonged or repeated exposure. H337 May cause damage to organs (though through prolonged or repeated exposure. H337 May cause damage to organs (thatdet) through prolonged or repeated exposure. H310 Very toxic to aquuite life. H410 Very toxic to aquuite life. H412 Harmful to aquastic life. H412 Harmful to aquastic life. H412 Harmful to aquastic life. DMEL Derived Naimal Effect Level EC50 Lethal Doce 50 % NOAEL No Observed Afverse Effect Level NOEC No Observed Afverse Effect Level NOEC No Observed Effect Concentration STP STP Studge Treatment Process VPAB very Persistent & Very Bioaccumulative MEator Jal <td></td> <td></td> <td></td> <td></td> <td></td>					
H312 May cause an allergic skin reaction. H318 Cause services evel anage. H321 Hamfull if inhaled. H321 May cause damage to organs (immune system) if swallowed. H323 May cause damage to organs through prolonged or repeated exposure if swallowed. H323 May cause damage to organs through prolonged or repeated exposure if swallowed. H323 May cause damage to organs (linduder) through prolonged or repeated exposure if swallowed. H323 May cause damage to organs (linduder) through prolonged or repeated exposure if swallowed. H324 Nary cause damage to organs (linduder) through prolonged or repeated exposure if swallowed. H324 Nary cause damage to organs (linduder) through prolonged or repeated exposure if swallowed. H324 Nary cause damage to organs (linduder) through prolonged or repeated exposure if swallowed. H324 Nary cause damage to organs (linduder) through prolonged or repeated exposure if swallowed. H325 Classification. Isbeling and packaging (clobally Harmonised System in Europe) DMEL Derived Minimal Effect Level DNEL Derived Minimal Effect Level NOSC No Observed Adverse Effect Concentration NOEC No Observed Adverse Effect Concentration DEF Slidge Tr					
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Reason for revision: 2.2

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