## SAFETY DATA SHEET

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

## **GISS MS AQUA [847779]**

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

#### 1.1. Product identifier

Product name : GISS MS AQUA [847779] Registration number REACH : Not applicable (mixture)

Product type REACH

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant identified uses

Sealant

Moisture-repellent compound

#### 1.2.2 Uses advised against

No uses advised against known

#### 1.3. Details of the supplier of the safety data sheet

**Rubix Engineering** 31, Rue de la Baume 75008 PARIS, France

Tel: +33 (0)1.44.86.08.10

infoclient@giss.fr

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

#### Hazard pictograms

No pictogram is used

Signal word No signal word

H-statements

H412 Harmful to aquatic life with long lasting effects.

P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

#### 2.3. Other hazards

No other hazards known

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

http://www.big.be

© BIG vzw

Reason for revision: 15.1 Revision number: 0103

Publication date: 2015-01-06 Technische Schoolstraat 43 A, B-2440 Geel

Date of revision: 2018-04-24

Product number: 55258 1/19

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
trimethoxyvinylsilane 01-2119513215-52	2768-02-7 220-449-8	C>0.1 %	Flam. Liq. 3; H226 Acute Tox. 4; H332	(1)(10)	Constituent
3-(trimethoxysilyl)propylamine 01-2119510159-45	13822-56-5 237-511-5	1% <c<3%< td=""><td>Eye Dam. 1; H318 Skin Irrit. 2; H315</td><td>(1)(10)</td><td>Constituent</td></c<3%<>	Eye Dam. 1; H318 Skin Irrit. 2; H315	(1)(10)	Constituent
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate 01-2119978231-37	63843-89-0 264-513-3	0.1% <c<0.25 %</c<0.25 	STOT RE 1; H372 Acute Tox. 4; H302 Aquatic Chronic 1; H410	(1)(9)	Constituent
dioctylbis(pentane-2,4-dionato-O,O')tin 01-0000020199-67	54068-28-9 483-270-6	0.1% <c<1%< td=""><td>Skin Sens. 1; H317 STOT SE 2; H371 STOT RE 2; H373</td><td>(1)(8)(10)</td><td>Constituent</td></c<1%<>	Skin Sens. 1; H317 STOT SE 2; H371 STOT RE 2; H373	(1)(8)(10)	Constituent
pyrithione zinc 01-2119511196-46	13463-41-7 236-671-3	0.01% <c<0.1 %</c<0.1 	Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(9)	Constituent

<sup>(1)</sup> For H-statements in full: see heading 16

### 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. Remove contact lenses, if present and easy to do. Continue rinsing. 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 for surrounding fires.

5.1.2 Unsuitable extinguishing media:

Not applicable.

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 2 / 19

<sup>(8)</sup> Specific concentration limits, see heading 16

<sup>(9)</sup> M-factor, see heading 16

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

#### 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. Do not discharge the waste into the drain. Keep container tightly closed.

#### 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.

Bel	gium

Etain (composés organiques de) (en Sn)	Time-weighted average exposure limit 8 h	0.1 mg/m <sup>3</sup>
	Short time value	0.2 mg/m <sup>3</sup>
France		
Etain (composés organiques d'), en Sn	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m <sup>3</sup>
	Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m <sup>3</sup>

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 3/19

Fin compounds, organic, except (	Cyhexatin (ISO) (ac Sn)	Short time value (Wo	rkplace exposure limit (EH40/2005	5)) 0.2 mg/m³
	Cyrichatiii (130), (as 311)	Priore time value (WC	inspiace exposure mint (LH40/2003	7/1
JSA (TLV-ACGIH)				
Tin organic compounds, as Sn			ge exposure limit 8 h (TLV - Adopt	
N N   4   2   2   1   2   2   2   2   2   2   2	_	Short time value (TLV	- Adopted value)	0.2 mg/m <sup>3</sup>
o) National biological limit value				
f limit values are applicable and	avaliable these will be its	ted below.		
2 Sampling methods f applicable and available it will b	ne listed helow			
3 Applicable limit values when u		ixture as intended		
f limit values are applicable and				
4 DNEL/PNEC values				
DNEL/DMEL - Workers				
rimethoxyvinylsilane				
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term systemic		27.6 mg/m³	
	Long-term systemic	effects dermal	3.9 mg/kg bw/day	
8-(trimethoxysilyl)propylamine	<b></b>		h.r1	D
Effect level (DNEL/DMEL)  DNEL	Type Long-term systemic	offorts inhalation	Value	Remark
DNEL	Long-term systemic		58 mg/m³ 8.3 mg/kg bw/day	
L pis(1,2,2,6,6-pentamethyl-4-pipe				
Effect level (DNEL/DMEL)	Type	,, i iiyaroxypiiciiyij	Value	Remark
DNEL	Long-term systemic	effects inhalation	0.05 mg/m³	
	Long-term systemic		0.07 mg/kg bw/day	
dioctylbis (pentane-2,4-dionato-C				
Effect level (DNEL/DMEL)	Туре		Value 84 mg/m³	Remark
DNEL		Long-term systemic effects inhalation		
	Acute systemic effects inhalation		84 mg/m³	
	Long-term local effects inhalation		0.091 mg/m³ 0.091 mg/m³	
		Acute local effects inhalation Long-term systemic effects dermal		
 pyrithione zinc	Long-term systemic	еттестѕ аегтаі	0.07 mg/kg bw/day	
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term systemic	effects dermal	0.01 mg/kg bw/day	- Itomani
DNEL/DMEL - General populatio			J. J. 7	l
rimethoxyvinylsilane	_			
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term systemic		18.9 mg/m³	
	Long-term systemic		7.8 mg/kg bw/day	
	Long-term systemic	effects oral	0.3 mg/kg bw/day	
R-(trimethoxysilyl)propylamine	Tuno		Volue	Remark
Effect level (DNEL/DMEL)  DNEL	Type Long-term systemic	offects inhalation	Value 17 mg/m³	Kemark
DIVLE	Long-term systemic		5 mg/kg bw/day	
	Long-term systemic		5 mg/kg bw/day	
bis(1,2,2,6,6-pentamethyl-4-pipe			0, 0, 1	1
Effect level (DNEL/DMEL)	Type		Value	Remark
DNEL	Long-term systemic	effects inhalation	0.01 mg/m <sup>3</sup>	
	Long-term systemic		33 μg/kg bw/day	
Long-term systemic e		effects oral	3 μg/kg bw/day	
PNEC				
rimethoxyvinylsilane	ļ		la .	
Compartments	Val		Remark	
Fresh water		6 mg/l		
Aqua (intermittent releases)  Marine water		mg/l 36 mg/l		
STP		mg/l		
Fresh water sediment		mg/kg sediment dw		
		3 mg/kg sediment dw		
ividi ille water seulment				

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 5103 Product number: 55258 4 / 19

3-(trimethoxysilyl)propylamine

Compartments	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	
Oral	44.4 mg/kg food	

 $\underline{bis(1,2,2,6,6-pentamethyl-4-piperidyl)} \ [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl] methyl] butylmalonate$ 

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	

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

Compartments	Value	Remark
Fresh water	0.026 mg/l	
Marine water	0.003 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	0.015 mg/kg sediment dw	
Soil	0.016 mg/kg soil dw	

<u>pyrithione zinc</u>

Compartments	Value	Remark
Fresh water	90 ng/l	
Marine water	90 ng/l	
STP	0.01 mg/l	
Fresh water sediment	0.009 mg/kg sediment dw	
Marine water sediment	0.009 mg/kg sediment dw	
Soil	1.02 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. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Respiratory protection not required in normal conditions.

#### b) Hand protection:

Gloves.

- materials (good resistance)

Polyethylene.

#### 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	

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 5 / 19

Explosion limits	No data available	
Flammability	Non-flammable	
Log Kow	Not applicable (mixture)	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	
Melting point	No data available	
Boiling point	No data available	
Evaporation rate	No data available	
Relative vapour density	No data available	
Vapour pressure	No data available	
Solubility	Water ; insoluble	
	Organic solvents ; soluble	
Relative density	1.053 ; 20 °C	
Decomposition temperature	No data available	
Auto-ignition temperature	No data available	
Flash point	No data available	
Explosive properties	No chemical group associated with explosive properties	
Oxidising properties	Not classified	
рН	No data available	

#### 9.2. Other information

Absolute densit	ty	1053 kg/m³ ; 20 °C
-----------------	----	--------------------

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

**Precautionary measures** 

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. Information on toxicological effects

11.1.1 Test results

#### Acute toxicity

#### GISS MS AQUA [847779]

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD	7120 mg/kg bw -		Rat (male/female)	Experimental	
		401	7236 mg/kg bw			value	
Dermal	LD50	Equivalent to OECD	3259 mg/kg bw -	24 h	Rabbit (female)	Converted value	
		402	3880 mg/kg bw				
Inhalation (vapours)	LC50	Equivalent to OECD	16.8 mg/l	4 h	Rat (male/female)	Experimental	
		403				value	

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 6 / 19

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	
nhalation (vapours)	LC50	OECD 403	> 5 ppm	6 h	Rat (male)	Read-across	
nhalation (vapours)	LC50	OECD 403	> 16 ppm	6 h	Rat (female)	Read-across	
,2,2,6,6-pentamethy	/l-4-piperidyl	) [[3,5-bis(1,1-dimeth	ylethyl)-4-hydroxyp	henyl]methyl]buty	<u>lmalonate</u>		
Route of exposure	Parameter	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	
nhalation (aerosol)	LC50	Equivalent to OECD 403	> 460 mg/m³ air	4 h	Rat (male/female)	Experimental value	
tylbis(pentane-2,4-di	ionato-O,O')t	tin_					
Route of exposure	Parameter	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	
nhalation (vapours)	LC50	Equivalent to OECD 403	5.1 mg/l air	4 h	Rat (male/female)	Experimental value	
chione zinc		•		•	1	•	
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	269 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	EPA OPP 81-2	> 2000 mg/kg	24 h	Rat (male/female)	Experimental value	
nhalation (aerosol)	LC50	OECD 403	1.03 mg/l air	4 h	Rat (male/female)	Experimental value	

#### Corrosion/irritation

#### GISS MS AQUA [847779]

No (test)data on the mixture available

In the light of practical experience, the classification for this mixture is less stringent than the one based on the calculation set out

Exposure time

Method

trimethoxyvinylsilane Route of exposure Result

·						determination	
Eye	Not irritating	OECD 405	24 h	1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating		24 h	24; 48; 72 hours	Rabbit	Experimental value	
trimethoxysilyl)pro	<u>l</u> pylamine				J.		
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye 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	
(1,2,2,6,6-pentame	thyl-4-piperidyl) [[	3,5-bis(1,1-dimethy	lethyl)-4-hydroxyphe	enyl]methyl]butylmal	<u>onate</u>	•	
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405	30 seconds	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Experimental value	

Time point

Species

Value

Remark

Reason for revision: 15.1 Publication date: 2015-01-06 Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 7/19

nato-O,O')tin	pentane-2	dioctylbis
---------------	-----------	------------

Route of exposure	Result	Method	Exposure time	Time point		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	

#### pyrithione zinc

R	doute of exposure	Result	Method	Exposure time	Time point	-	Value determination	Remark
E	'	Serious eye damage	OECD 405	24 h	24 hours	Rabbit	Experimental value	
S	kin	Not irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

#### Conclusion

Not classified as irritating to the respiratory system

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

#### Respiratory or skin sensitisation

#### GISS MS AQUA [847779]

No (test)data on the mixture available

In the light of practical experience, the classification for this mixture is less stringent than the one based on the calculation set out

#### trimethoxyvinylsilane

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	,	Guinea pig (male/female)	Experimental value	

#### 3-(trimethoxysilyl)propylamine

Route of exposure	Result	Method		Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	72 h	,	Guinea pig (male/female)	Experimental value	

#### bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

Route of exposure	Result	Method	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Other		Guinea pig (male/female)	Experimental value	

#### dioctylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 429		Mouse (female)	Experimental value	

#### pyrithione zinc

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		· ·	Guinea pig (female)	Experimental value	
Inhalation						Data waiving	

#### Conclusion

Not classified as sensitizing for skin Not classified as sensitizing for inhalation

#### Specific target organ toxicity

#### GISS MS AQUA [847779]

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	 Value determination
Oral (stomach tube)	LOAEL	OECD 422	62.5 mg/kg bw/day			( // -	Experimental value
Oral (stomach tube)	LOAEL	OECD 422	250 mg/kg bw/day			( // -	Experimental value
Inhalation (vapours)		Subchronic toxicity test	100 ppm			14 weeks (6h/day, 5 days/week)	Experimental value

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 8/19

Route of exposure	Parameter	Method	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
Inhalation (aerosol)	(inhalation risk test)	Equivalent to OECD 412	147 mg/m³ air	Lungs	larynx, trachea and lung	4 weeks (6h/day, 5 days/week)	Rat (male)	Read-across
1,2,2,6,6-pentameth	nyl-4-piperid	yl) [[3,5-bis(1,1-d	limethylethyl)-4-	hydroxyphenyl]r				
Route of exposure	Parameter	Method	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	28 day(s)	Rat (male/female)	Experimental value
Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Liver	Enlargement/aff ection of the liver	28 day(s)	Rat (male/female)	Experimental value
Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Spleen	Spleen enlargement/aff ection	28 day(s)	Rat (male/female)	Experimental value
ctylbis(pentane-2,4-		<u>)tin</u>						
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	,	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
ithione 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		No effect	98 weeks (daily) - 104 weeks (daily)	Rat (male/female)	Experimental value
Dermal	NOAEL	EPA OPP 82-3	100 mg/kg bw/day			13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Dermal	LOAEL	EPA OPP 82-3	1000 mg/kg bw/day			13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (dust)	LOAEL	EPA OPPTS 870.3465	6 mg/m³ air		, , ,	3 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (dust)	NOAEL	EPA OPPTS 870.3465	2 mg/m³ air			3 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

#### Conclusion

Not classified for subchronic toxicity

#### Mutagenicity (in vitro)

#### GISS MS AQUA [847779]

No (test)data on the mixture available

trimethoxyvinylsilane

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
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 9 / 19

3-(trimethoxysilyl)propylamine Result	Method	Test substrate	<b>,</b>	Effect		Value	determination
Negative with metabolic	OECD 476		ter ovary (CHO)			Read-a	
activation, negative without	0100470	Cilliese lidilis	tei Ovaly (CHO)	ואט כוופננ		nedu-d	101 033
metabolic activation							
Negative with metabolic	OECD 473	Chinese hams	•	No effect		Read-a	across
activation, negative without		fibroblasts (V7	79)				
metabolic activation							
Negative with metabolic	OECD 471	Escherichia co	li	No effect		Experi	mental value
activation, negative without metabolic activation							
Negative with metabolic	OECD 471	Bacteria (S.tyr	himurium)	No effect		Evnori	mental value
activation, negative without	OLCD 471	Bacteria (3.ty)	minumani)	No effect		Lxperii	mental value
metabolic activation							
bis(1,2,2,6,6-pentamethyl-4-piper	ridyl) [[3,5-bis(1,1-dimethy	lethyl)-4-hydroxypheny	/l]methyl]butylm	nalonate			
Result	Method	Test substrate	)	Effect		Value	determination
Negative with metabolic	Ames test	Bacteria (S.typ	ohimurium)	No effect		Experi	mental value
activation, negative without metabolic activation							
Negative with metabolic	OECD 476	Chinese hams	ter ovary (CHO)	No effect		Experi	mental value
activation, negative without							
metabolic activation Positive with metabolic	OECD 473	Chinaca hama	ter ovary (CHO)			Evnori	montal value
activation, positive without	UECD 4/3	Crimese nams	ter ovary (ChO)			Experii	mental value
metabolic activation							
dioctylbis(pentane-2,4-dionato-0	,O')tin	t					
Result	Method	Test substrate	)	Effect		Value determination	
Negative with metabolic	OECD 476	Chinese hams	U	No effect		Experi	mental value
activation, negative without		fibroblasts (V7	79)				
metabolic activation	OFCD 473	Chinasa hawa		No office		F and	
Negative with metabolic activation, negative without	OECD 473	Chinese hams fibroblasts (V7	•	No effect		Experi	mental value
metabolic activation		ilbioblasts (V)	9)				
Negative with metabolic	OECD 471	Bacteria (S.tyr	himurium)	No effect		Experi	mental value
activation, negative without		,					
metabolic activation							
pyrithione zinc							
Result	Method	Test substrate		Effect			determination
Negative with metabolic	OECD 471	Bacteria (S.typ	ohimurium)	No effect		Experi	mental value
activation, negative without metabolic activation							
	OECD 476	Chinese hams	torlung	No effect		Evnori	montal value
Negative with metabolic activation	OLCD 4/0	fibroblasts (V7	U	INO EIIECL		Experi	mental value
Negative with metabolic	OECD 473	Chinese hams		Chromosome a	aberrations	Experi	mental value
activation	0205 173	fibroblasts (V7	-	Sin Sin Osume (		LAPEIII	ciitai vaiaE
	ı	1 :	•	l		1	
genicity (in vivo)							
S MS AQUA [847779]							
No (test)data on the mixture avai	lable						
Judgement is based on the releva	nt ingredients						
trimethoxyvinylsilane							
Result	Method	Exposure time	Test subst		Organ		Value determinat
Negative (Inhalation (vapours	)) OECD 489	3 days (1x/day)	Rat (femal	e)			Experimental valu
3-(trimethoxysilyl)propylamine					_		
Result	Method	Exposure time	Test subst		Organ		Value determinat
Negative	Equivalent to OEC	D	Mouse (m	ale/female)	Bone marrov	V	Read-across
alterate distribute and the control of the control	474						<u> </u>
dioctylbis(pentane-2,4-dionato-O Result		Exposure time	Toot oub-t	rato	Organ		Value determine
Negative (Oral (stomach tube			Test subst Mouse (m	J		u .	Value determinat Experimental valu
pyrithione zinc	JJ UECD 474		iviouse (m	ai <del>c</del> )	Bone marrov	v	Lyberimental valu
pyricilione zinc	N. G All	Francisco Alman	Tost subst	rato	Organ		Value determinat
Posult	IIVIATROA						
Result Negative	Method OECD 474	Exposure time	Test subst	ale/female)	Bone marrov	v	Experimental valu

#### Conclusion

Not classified for mutagenic or genotoxic toxicity

### Carcinogenicity

GISS MS AQUA [847779]

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 10 / 19

No (test)data on the mixture available

Judgement is based on the relevant ingredients

3-(trimethoxysilyl)propylamine

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Dermal	NOAEL	Carcinogenic toxicity study	0/	(-		No carcinogenic effect		Inconclusive, insufficient data

pyrithione zinc

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	 Value determination
Oral	NOAEL	OECD 453	> 2.1 mg/kg bw	104 weeks (daily)	Rat	No carcinogenic	Experimental
					(male/female)	effect	value

#### Conclusion

Not classified for carcinogenicity

#### Reproductive toxicity

#### GISS MS AQUA [847779]

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation (vapours))	NOAEL	EPA OTS 798.4350	100 ppm	10 days (gestation, 6h/day)	Rat (female)	No effect		Experimental value
Maternal toxicity (Inhalation (vapours))	NOAEL	EPA OTS 798.4350	25 ppm	10 days (gestation, 6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL (P)	OECD 422	1000 mg/kg bw/day	≤ 43 day(s)	Rat (male)	No effect		Experimental value

3-(trimethoxysilyl)propylamine

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
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

 $\underline{\text{bis}(1,2,2,6,6-\text{pentamethyl-4-piperidyl})} \ [[3,5-\text{bis}(1,1-\text{dimethylethyl})-4-\text{hydroxyphenyl}] \\ \text{methyl}] \\ \underline{\text{butylmalonate}} \\ \underline{\text{bis}(1,2,2,6,6-\text{pentamethyl-4-piperidyl})} \ [[3,5-\text{bis}(1,1-\text{dimethylethyl})-4-\text{hydroxyphenyl}] \\ \underline{\text{methyl}} \\ \underline{\text{butylmalonate}} \\ \underline{\text{bis}(1,2,2,6,6-\text{pentamethyl-4-piperidyl})} \\ \underline{\text{bis}(1,2,2,6,6-\text{pentamethyl-4-piperidyl)}} \\ \underline{\text{bis}(1,2,2,6,6-\text{pentamethyl-4-piperidyl})} \\ \underline{\text{bis}(1,2,2,6,6-\text{pentamethyl-4-piperidyl)}} \\ \underline{\text{bis}(1,2,2,6-\text{pentamethyl-4-piperidyl)}} \\ \underline{\text{bis}(1$ 

	Parameter	Method	Value	Exposure time	Species	Effect	- 3	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-O,O')tin

	Parameter	Method	Value	Exposure time	Species	Effect	- 3	Value determination
Developmental toxicity (Oral (diet))	NOAEL	OECD 422	0.3 mg/kg bw/day - 0.5 mg/kg bw/day	28 day(s)	Rat	No effect		Experimental value
Maternal toxicity (Oral (diet))	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 (Oral (diet))	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

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 11 / 19

pyrithione zinc

	Parameter	Method	Value	Exposure time	Species	Effect	. 3	Value determination
Developmental toxicity	LOAEL	EPA OPP 83-3	1.5 mg/kg bw/day	13 day(s)	Rabbit (female)	Increased post- implantation loss	Foetus	Experimental value
	NOAEL	EPA OPP 83-3	0.5 mg/kg bw/day	13 day(s)	Rabbit (female)	No effect		Experimental value
Maternal toxicity	LOAEL	EPA OPP 83-3	1.5 mg/kg bw/day	13 day(s)	Rabbit (female)	Weight changes		Experimental value
	NOAEL	EPA OPP 83-3	0.5 mg/kg bw/day	13 day(s)	Rabbit (female)	No effect		Experimental value
Effects on fertility	LOAEL (P/F1)	EPA OPPTS 870.3800	1.4 mg/kg bw/day - 2.8 mg/kg bw/day		Rat (male/female)	Reproductive performance		Experimental value
	NOAEL (P/F1)	EPA OPPTS 870.3800	0.7 - 1.4		Rat (male/female)	No effect		Experimental value

#### Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

GISS MS AQUA [847779]

No (test)data on the mixture available

Chronic effects from short and long-term exposure

GISS MS AQUA [847779]

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### GISS MS AQUA [847779]

No (test)data on the mixture available

Classification is based on the relevant ingredients

 $\underline{\mathsf{trimethoxyvinylsilane}}$ 

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
							water	
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 aquatic plants	EC50	EPA 67014- 73-0	210 mg/l	7 day(s)	Pseudokirchnerie lla 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)		Semi-static system	Fresh water	Experimental value; GLP

3-(trimethoxysilyl)propylamine

ti intetrioxysii yrjpi opyramine											
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination			
Acute toxicity fishes	LC50	OECD 203	> 934 mg/l	96 h		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 aquatic plants	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			

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 12 / 19

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 mg/l	96 h		Semi-static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	Other	61 mg/l		Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Biomass
Long-term toxicity aquatic crustacea	NOEC	OECD 211	2 μg/l	21 day(s)		Semi-static system		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-O,O')tin

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		71.1 mg/l	96 h	Salmo gairdneri	Flow-through system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50		47.6 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	32 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving

pyrithione zinc

	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 lla 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- organisms	EC50	OECD 209	2.4 mg/l	3 h	Activated sludge	Static system		Experimental value; GLP

M-factor of this substance is debatable as it does not correspond to the conclusion from the test

#### Conclusion

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

trimethoxyvinylsilane Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	51 %; GLP	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	alue Conc. OH-radicals Value determin				
	0.56 day(s)	500000 /cm³	Calculated value			
Half life water (41/2 water)						

Half-life water (t1/2 water)

Method		Primary degradation/mineralisation	Value determination
OECD 111: Hydrolysis as a function of pH	< 2.4 h; pH = 7	Primary degradation	Weight of evidence

3-(trimethoxysilyl)propylamine Biodegradation water Method

ivietnoa	value	puration	value determination			
EU Method C.4	67 %; GLP	28 day(s)	Experimental value			
lalf-life water (t1/2 water)						

Method	Value	Primary degradation/mineralisation	Value determination
	4 h; pH = 7	Primary degradation	QSAR

Reason for revision: 15.1 Publication date: 2015-01-06 Date of revision: 2018-04-24

Product number: 55258 Revision number: 0103 13 / 19

#### $\underline{bis(1,2,2,6,6-pentamethyl-4-piperidyl)}\ [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl] methyl]butylmalonate$

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	2 %	28 day(s)	Experimental value

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

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	9 %; GLP	28 day(s)	Experimental value
			1

#### pyrithione zinc

#### Biodegradation water

Method	Value	Duration	Value determination	
OECD 301B: CO2 Evolution Test	39 %; GLP	28 day(s)	Experimental value	
OECD 303A: Activated Sludge Units	≥ 98.8 %; Activated sludge	35 day(s)	Experimental value	

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN	8.69 h		Calculated value

#### Phototransformation water (DT50 water)

Method	Value	Conc. OH-radicals	Value determination
Other	< 7 minutes		Experimental value

#### Half-life water (t1/2 water)

Method		Primary degradation/mineralisation	Value determination
EPA 161-1	7.4 day(s) - 12.9 day(s); GLP	Primary degradation	Experimental value

#### Conclusion

Contains non readily biodegradable component(s)

#### 12.3. Bioaccumulative potential

#### GISS MS AQUA [847779]

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

#### trimethoxyvinylsilane

#### Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN	Calculated	-2	20 °C	QSAR

#### 3-(trimethoxysilyl)propylamine

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.2	20 °C	QSAR

#### $\underline{\text{bis}(1,2,2,6,6-pentamethyl-4-piperidyl)} \ [[3,5-\text{bis}(1,1-\text{dimethylethyl})-4-\text{hydroxyphenyl}] methyl] butylmalonate$

#### **BCF** fishes

	Parameter	Method	Value	Duration	Species	Value determination
	BCF	OECD 305	24.3 - 437.1	60 day(s)	Cyprinus carpio	Experimental value
Lo	og Kow					

Method	Remark	Value	Temperature	Value determination
OECD 107		3.7	23 °C	Experimental value
OECD 117		> 6.5	23 °C	Experimental value
Other		4.2	23 ℃	Experimental value

#### dioctylbis(pentane-2,4-dionato-O,O')tin

Log Kow

Method	Remark	Value	Temperature	Value determination
			25 °C	Calculated

#### pyrithione zinc

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	7.87 - 11; Fresh weight	30 day(s)	Crassostrea sp.	Experimental value

#### Log Kow

 9				
Method	Remark	Value	Temperature	Value determination
OECD 107			25 °C	Experimental value

### Conclusion

Does not contain bioaccumulative component(s)

### 12.4. Mobility in soil

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 14/19

#### trimethoxyvinylsilane

#### (log) Koc

Parameter	Method	Value	Value determination
			Data waiving

#### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
8.72E-5 atm m³/mol		25 °C		Estimated value

#### $\underline{bis(1,2,2,6,6-pentamethyl-4-piperidyl)} \ [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl] methyl] butylmalonate$

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	3.04 - 8.1	Calculated value

#### pyrithione zinc

#### (log) Koc

Parameter	Method	Value	Value determination
Кос	OECD 106	1700 - 25000	Experimental value
log Koc		3.2 - 4.4	Calculated value

#### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
< 0.5E-4 Pa.m³/mol				Calculated value

#### Conclusion

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

GISS MS AQUA [847779]

#### 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

Groundwater

Groundwater 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 and Regulation (EU) No 2017/997.

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 containing residues of or contaminated 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 name

#### 14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

#### 14.4. Packing group

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 15 / 19

Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Annex II of MARPOL 73/78	Not applicable, based on available data

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <u>European legislation:</u>

VOC content Directive 2010/75/EU

VOC content	Remark
4.6 %	
48.4 g/l	

#### REACH Annex XVII - Restriction

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

and use of certain dangerous	s substances, mixtures and articles.	
	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
• trimethoxyvinylsilane • 3-(trimethoxysilyl)propylamine • dioctylbis(pentane-2,4-dionato-O,O')tin		1. Shall not be used in:  — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects,  2. Articles not complying with paragraph 1 shall not be placed on the market.  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:  — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304,  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).  5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:  a) lamp oils, labelled with R65 or H304, intended for supply to the general public are 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";  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 accordanc
· dioctylbis(pentane-2,4-dionato-O,O')tin	Organostannic compounds	1. 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 on 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:  a) Tri-substituted organostannic compounds such as tributyltin (TBT) 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

Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 16 / 19

		2010, except for articles that were already in use in the Community before that date.  5. Dibutyltin (DBT) compounds:  a) 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 be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.  c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:  — one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives,  — paints and coatings containing DBT compounds as catalysts when applied on articles,  — soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC,  — fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications,  — outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades,  d) By way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004.  6. Dioctyltin (DOT) compounds  (a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, o part thereof, is greater than the equivalent of 0,1 % by weight of tin:  — textile articles intended to come into contact with the skin.
		— 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,
		- wall and not coverings, - childcare articles, - female hygiene products, - nappies,
		<ul> <li>two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits).</li> <li>(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.</li> </ul>
· trimethoxyvinylsilane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	- "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 Article 8 (1a) of Council Directive 75/324/EEC.  4. 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 Belgium GISS MS AQUA [847779]		

GISS MS AQUA [847779]

No data available

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

Résorption peau	Etain (composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les
	muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par
	contact direct que par présence de l'agent dans l'air.

#### National legislation The Netherlands

GISS MS AQUA [847779]

No data available

#### National legislation France

GISS MS AQUA [847779]

No data available

#### **National legislation Germany**

GISS MS AQUA [847779]

	WGK	L; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefahrdender [
		Stoffe (VwVwS) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
		(AwSV) of 18 April 2017
+-	imothovavinylcilano	

Publication date: 2015-01-06

<u>trimethoxyvinylsilane</u>

Reason for revision: 15.1

IA-Luit	p.z.5

Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 17 / 19

#### 3-(trimethoxysilyl)propylamine

TA-Luft 5.2.5

bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

TA-Luft 5.2.1 dioctylbis(pentane-2,4-dionato-O,O')tin

TA-Luft 5.2.5; I

pyrithione zinc

TA-Luft 5.2.1

#### National legislation United Kingdom

#### GISS MS AQUA [847779]

No data available

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

Skin absorption Tin compounds, organic, except Cyhexatin (ISO), (as Sn); Sk

#### Other relevant data

#### GISS MS AQUA [847779]

No data available

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

TLV - Carcinogen	Tin organic compounds, as Sn; A4
Skin absorption	Tin organic compounds, as Sn; Skin; Danger of cutaneous absorption

#### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

### SECTION 16: Other information

#### Full text of any H-statements referred to under heading 3:

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H371 May cause damage to organs (immune system) if swallowed.
- H372 Causes damage to organs (liver, lymph nodes, spleen) through prolonged or repeated exposure.
- H373 May cause damage to organs (immune system) through prolonged or repeated exposure if swallowed.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

(\*) INTERNAL CLASSIFICATION BY BIG

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

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

#### M-factor

bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1- dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate	10	Chronic	ECHA
pyrithione zinc	10	Acute	Customer information THOR (2014-10-27)
pyrithione zinc	1	Chronic	Customer information THOR (2014-10-27)

#### Specific concentration limits CLP

dioctylbis(pentane-2.4-dionato-0.0')tin C > 5 % Skin Sens. 1: H317	ITIB Chemicals
Idioctylpis(pentane-2.4-dionato-O.O')tin	ITIB 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 to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption,

Reason for revision: 15.1 Publication date: 2015-01-06

Date of revision: 2018-04-24

Revision number: 0103 Product number: 55258 18 / 19



Reason for revision: 15.1 Publication date: 2015-01-06
Date of revision: 2018-04-24

 Revision number: 0103
 Product number: 55258
 19 / 19