

SAFETY DATA SHEET

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



FDP700 290 ml
> 7 to 8 m

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MADE IN EU

PI503 - 10/2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Product name: Orac Decofix Power
Registration number REACH: Not applicable (mixture)
Product type REACH: Mixture (Organic)

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

1.2.1 Relevant identified uses: Sealant
1.2.2 Uses advised against: No uses advised against known

1.3. Company/undertaking identification

ORAC nv, Biekorfstraat 32, 8400 Ostend, Belgium
T +32 (0)59 80 32 52 - F +32 (0)59 80 28 10
info@oracdecor.com - www.oracdecor.com

1.4. Details of the supplier of the safety data sheet

ORAC nv, Biekorfstraat 32, 8400 Ostend, Belgium
T +32 (0)59 80 32 52 - info@oracdecor.com

1.5. Emergency telephone number

T +32 (0)59 80 32 52 (ORAC)

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: Aquatic Chronic
Category: category 3
Hazard statements: 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name/REACH Registration No:
trimethoxyvinylsilane 01-2119513215-52

CAS No / EC No:

2768-02-7

220-449-8

Conc. (C): 1%<C<5%

Classification according to CLP:

Flam. Liq. 3; H226

Acute Tox. 4; H332

STOT RE 2; H373

Note: (1)(10)

Remark: Constituent

Name/REACH Registration No:

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

01-2119978231-37

CAS No / EC No:

63843-89-0

264-513-3

Conc. (C): 0.1%<C<1%

Classification according to CLP:

STOT RE 1; H372

Acute Tox. 4; H302

Aquatic Chronic 1; H410

Note: (1)(9)

Remark: Constituent

Name/REACH Registration No:

dioctylbis(pentane-2,4-dionato-O,O')tin 01-0000020199-67

CAS No / EC No:

54068-28-9

483-270-6

Conc. (C): 0.1%<C<1%

Classification according to CLP:

STOT SE 2; H371

STOT RE 2; H373

Skin Sens. 1; H317

Note: (1)(8)(10)

Remark: Constituent

Name/REACH Registration No:

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics
01-2119552497-29

CAS No / EC No:

/

Conc. (C): 1%<C<10%

Classification according to CLP:

Asp. Tox. 1; H304

Note: (1)(10)

Remark: UVCB

Name/REACH Registration No:

reaction mass of: N,N'-ethane-1,2- diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide) 01-0000017860-69

CAS No / EC No:

432-430-3

Conc. (C): 2,5%<C<10%

Classification according to CLP:

Aquatic Chronic 4; H413

Note: (1)

Remark: UVCB

(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

4. FIRST AID MEASURES

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

- After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

- After skin contact:

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

- After eye contact:

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

- After ingestion:

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

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

4.2.1 Acute symptoms

- After inhalation: No effects known.

- After skin contact: No effects known.

- After eye contact: Slight irritation.

- After ingestion: No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours, hydrogen chloride.

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.

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. 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

Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

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. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: 20 °C. Store in a dry area. Keep container in a well-ventilated place. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from: Heat sources, water/moisture.

7.2.3 Suitable packaging material: Synthetic material.

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.

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 organiques de) (en Sn)

- Time-weighted average exposure limit 8 h: 0.1 mg/m³

- Short time value: 0.2 mg/m³

The Netherlands

Tinverbindingen (organisch)(als Sn)

- Time-weighted average exposure limit 8 h (Private occupational exposure limit value): 0.1 mg/m³

- Short time value (Private occupational exposure limit value): 0.2 mg/m³

France

Etain (composés organiques d'), en Sn

- Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative): 0.1 mg/m³

- Short time value (VL: Valeur non réglementaire indicative): 0.2 mg/m³

UK

Tin compounds, organic, except Cyhexatin (ISO), (as Sn)

- Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)):

0.1 mg/m³

- Short time value (Workplace exposure limit (EH40/2005)) 0.2 mg/m³

USA (TLV-ACGIH)

Tin organic compounds, as Sn

- Time-weighted average exposure limit 8 h (TLV - Adopted Value): 0.1 mg/m³

- Short time value (TLV - Adopted Value) 0.2 mg/m³

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

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

8.1.4 DNEL/PNEC values

DNEL/DMEL WORKERS

trimethoxyvinylsilane

Effect level (DNEL/DMEL): DNEL

Type	Value
Long-term systemic effects inhalation	2.6 mg/m ³
Acute systemic effects inhalation	2.6 mg/m ³
Long-term systemic effects dermal	0.2 mg/kg bw/day
Acute systemic effects dermal	0.2 mg/kg bw/day

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

Effect level (DNEL/DMEL): DNEL

Type	Value
Long-term systemic effects inhalation	0.05 mg/m ³
Long-term systemic effects dermal	0.07 mg/kg bw/day

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

Effect level (DNEL/DMEL): DNEL

Type	Value
Long-term systemic effects inhalation	84 mg/m ³
Acute systemic effects inhalation	84 mg/m ³
Long-term local effects inhalation	0.091 mg/m ³
Long-term systemic effects dermal	0.07 mg/kg bw/day

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL):

Type	Value
no data available	

DNEL/DMEL GENERAL POPULATION

trimethoxyvinylsilane

Effect level (DNEL/DMEL): DNEL

Type	Value
Long-term systemic effects inhalation	0.7 mg/m ³
Acute systemic effects inhalation	0.7 mg/m ³
Long-term systemic effects dermal	0.1 mg/kg bw/day
Acute systemic effects dermal	0.1 mg/kg bw/day
Long-term systemic effects oral	0.1 mg/kg bw/day

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

Effect level (DNEL/DMEL): DNEL

Type	Value
Long-term systemic effects inhalation	0.01 mg/m ³
Long-term systemic effects dermal	33 µg/kg bw/day
Long-term systemic effects oral	3 µg/kg bw/day

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL):

Type	Value
no data available	

PNEC

trimethoxyvinylsilane

Compartments	Value
Fresh water	0.36 mg/l
Marine water	0.036 mg/l
STP	6.6 mg/l
Fresh water sediment	1.3 mg/kg sediment dw
Marine water sediment	0.13 mg/kg sediment dw
Soil	0.055 mg/kg soil dw

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

Compartments	Value
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-0,0')tin

Compartments	Value
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

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

no data available

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. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical form	Paste
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	Not easily combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	> 240 °C
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	water; insoluble organic solvents; soluble
Relative density	1.4 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

9.2 Other information:

Surface tension	No data available
Absolute density	1400 kg/m ³ ; 20 °C

10. STABILITY AND REACTIVITY

10.1. Reactivity

Heating increases the fire hazard. 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

Keep away from naked flames/heat.

10.5. Incompatible materials

Water/moisture.

10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours, hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

11.1.1 Test results

ACUTE TOXICITY

Orac Decofix Power

No (test)data on the mixture available

<u>trimethoxyvinylsilane</u>							
route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Equivalent to OECD 401	7120>7236 mg/kg bw		Rat	M/F	Experimental
Dermal	LD50	Equivalent to OECD 402	3259 mg/kg bw	24 h	Rabbit	F	Converted value
Inhalation (vapours)	LC50	Equivalent to OECD 403	16,81 mg/l	4 h	Rat	M/F	Experimental
<u>bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate</u>							
route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Equivalent to OECD 401	1490 mg/kg bw		Rat	M/F	Experimental
Dermal	LD50	Equivalent to OECD 402	> 3170 mg/kg bw	24 h	Rat	M/F	Experimental
Inhalation (aerosol)	LC50	Equivalent to OECD 403	> 460 mg/m ³ air	4 h	Rat	M/F	Experimental
<u>dioctylbis(pentane-2,4-dionato-0,0')tin</u>							
route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 423	2500 mg/kg		Rat	F	Experimental
Dermal	LD50	OECD 402	> 2000 mg/g	24 h	Rat	M/F	Experimental
Inhalation (vapours)	LC50	Equivalent to OECD 403	1224 ppm	4 h	Rat	M/F	Experimental
<u>hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics</u>							
route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 401	> 5000 mg/kg bw		Rat	M/F	Experimental
Dermal	LD50	OECD 402	> 3160 mg/kg bw	24 h	Rabbit	M/F	Experimental
Inhalation (vapours)	LC50	OECD 403	> 5266 mg/m ³ air	4 h	Rat	M/F	Experimental
<u>reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)</u>							
route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		> 2000 mg/kg		Rat		Literature study
Dermal	LD50		> 2000 mg/kg		Rat		Literature study

Judgement is based on the relevant ingredients

Conclusion: Not classified for acute toxicity

CORROSION/IRRITATION

Orac Decofix Power

No (test)data on the mixture available

<u>trimethoxyvinylsilane</u>							
Route of exposure	Result	Method	Exposure time	Time point	Species		Value determination
Eye	Not irritating	OECD 405	24 h	1; 24; 48; 72 hours	Rabbit		Experimental
Skin	Not irritating		24 h	24; 48; 72 hours	Rabbit		Experimental
<u>bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate</u>							
Route of exposure	Result	Method	Exposure time	Time point	Species		Value determination
Eye	Not irritating	Equivalent to OECD 405	30 seconds	24; 48; 72 hrs	Rabbit		Experimental
Skin	Not irritating	Equivalent to OECD 404	24 h	24; 72 hrs	Rabbit		Experimental

<u>dioctylbis(pentane-2,4-dionato-0,0')tin</u>						
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405		24; 72 hrs	Rabbit	Experimental
Skin	Not irritating	OECD 404	24 h	1 hr	Rabbit	Experimental
<u>hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics</u>						
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hrs	Rabbit	Experimental
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hrs	Rabbit	Experimental
Skin	Not irritating	other	24 h	24; 48; 72 hrs	Human	Experimental

Judgement is based on the relevant ingredients

Conclusion: Not classified as irritating to the skin - Not classified as irritating to the eyes - Not classified as irritating to the respiratory system

RESPIRATORY OR SKIN SENSITISATION

Orac Decofix Power

No (test)data on the mixture available

<u>trimethoxyvinylsilane</u>							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	OECD 406		24; 48 hrs	Guinea pig	M/F	Experimental
<u>bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate</u>							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	other			Guinea pig	M/F	Experimental
<u>dioctylbis(pentane-2,4-dionato-0,0')tin</u>							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Sensitizing	OECD 429			Mouse	F	Experimental
<u>hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics</u>							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	OECD 406	24 h	24; 48 hrs	Guinea pig	F	Read-across
Skin	Not sensitizing	other	216 h	24; 48 hrs	Human	M/F	Experimental
<u>reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)</u>							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	OECD 429			Mouse	M/F	Experimental

Judgement is based on the relevant ingredients

Conclusion: Not classified as sensitizing for skin - Not classified as sensitizing for inhalation

SPECIFIC TARGET ORGAN TOXICITY

Orac Decofix Power

No (test)data on the mixture available

<u>trimethoxyvinylsilane</u>									
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral (stomach tube)	LOAEL	OECD 422	62,5 mg/kg bw/day	Bladder	Histopathologic all changes		Rat	M	Experimental
Inhalation (vapours)	NOAEC	Subchronic toxicity test	10 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat	M/F	Experimental
<u>bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate</u>									
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Lymph nodes	Enlargement lymph nodes	28 days	Rat	M/F	Experimental

Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Liver	Enlargement/affection of liver	28 days	Rat	M/F	Experimental
Oral (stomach tube)	LOAEL	OECD 421	10 mg/kg bw/day	Spleen	Histopathologic all changes	28 days	Rat	M/F	Experimental
<u>dioctylbis(pentane-2,4-dionato-0,0')tin</u>									
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral (diet)	NOAEL	OECD 422	0,3 > 0,5 mg/kg bw/day	Thymus	No effect	28 days	Rat	M/F	Experimental
Dermal									Data waiving
Inhalation (vapours)	NOAEC	Equiv. to OECD 413	100 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat	M/F	Experimental
Inhalation (vapours)	LOAEC	Equiv. to OECD 413	650 ppm	various organs	Histopathology	14 weeks (6h/day, 5 days/week)	Rat	M/F	Experimental
<u>hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics</u>									
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	Equiv. to OECD 408	≥ 5000 mg/kg bw/day		No effect	13 weeks (daily)	Rat	M/F	Read-across
Inhalation (vapours)	NOAEC	Equiv. to OECD 413	> 10400 mg/m ³ air		No effect	13 weeks (6h/day, 5 days/week)	Rat	M/F	Read-across
<u>reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)</u>									
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL		1000 mg/kg bw/day		No effect	28 days	Rat		Literature study

Judgement is based on the relevant ingredients
Conclusion: Not classified for subchronic toxicity

MUTAGENICITY (IN VITRO)

Orac Decofix Power
 No (test)data on the mixture available

<u>trimethoxyvinylsilane</u>									
Result	Method	Test substrate	Effect	Value determination					
Positive with metabolic activation, positive without metabolic activation	OECD 473	VHL/IU cells	Chromosome aberrations	Experimental value					
Negative with metabolic activation, positive without metabolic activation	OECD 476	Chinese hamster ovary (CHO)		Experimental value					
<u>bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate</u>									
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					
<u>dioctylbis(pentane-2,4-dionato-0,0')tin</u>									
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					
<u>hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics</u>									
Result	Method	Test substrate	Effect	Value determination					
Negative	Equiv. to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value					

reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)				
Result	Method	Test substrate	Effect	Value determination
Negative	Ames test	Bacteria (S.typhimurium)		Literature study
Negative	Ames test	Escherichia coli		Literature study
Negative	Chromosome aberration assay	Human lymphocytes		Literature study

MUTAGENICITY (IN VIVO)

Orac Decofix Power

No (test)data on the mixture available

trimethoxyvinylsilane					
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	EPA 560/6-83-001		Mouse (M/F)		Experimental value
dioctylbis(pentane-2,4-dionato-0,0')tin					
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474		Mouse (M)	Bone marrow	Experimental value
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics					
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equiv. to OECD 483	8 weeks (6h/day, 5 days/week)	Mouse (M)	Read-across	
Negative	Equiv. to OECD 475		Rat (M/F)	Read-across	
Negative	Equiv. to OECD 474		Mouse (M/F)	Read-across	

Judgement is based on the relevant ingredients

Conclusion: Not classified for mutagenic or genotoxic toxicity

CARCINOGENICITY

Orac Decofix Power

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion: Not classified for carcinogenicity

REPRODUCTIVE TOXICITY

Orac Decofix Power

No (test)data on the mixture available

trimethoxyvinylsilane								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Development toxicity	NOAEL	EPA OTS	100 ppm	10 days	Rat (F)	no effect		Experimental
	798.4350		(gestation, 6h/day)					
Maternal toxicity	NOAEL	EPA OTS	25 ppm	10 days	Rat (F)	no effect		Experimental
	798.4350		(gestation, 6h/day)					
Effects on fertility	NOAEL (P)	OECD 422	1000 mg/kg bw/day	≤ 43 days	Rat (M)	no effect		Experimental
	NOAEL (P)	OECD 422	250	≥ 60 days	Rat (F)	no effect		Experimental
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity								Data waiving
Maternal toxicity								Data waiving
Effects on fertility	NOAEL	Equivalent to OECD 421	≥ 10 mg/kg	36 > 50 day(s)	Rat (M/F)	no effect		Experimental
dioctylbis(pentane-2,4-dionato-0,0')tin								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Maternal toxicity	NOAEL	OECD 422	0,3 > 0,5 mg/kg bw/day	28 days	Rat	no effect	Thymus	Experimental
Effects on fertility	NOAEL	OECD 422	0,3 > 0,5 mg/kg bw/day	28 days	Rat (M/F)	no effect		Experimental
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Development toxicity	NOAEL	Equivalent to OECD 422	>1000 mg/kg bw/day	10 days	Rat	no effect		Experimental

Effects on fertility	NOAEC	Equivalent to OECD 416	≥ 1500 ppm	13 weeks (6h/day, 5days/week)	Rat (M/F)	no effect	Read-across
	NOAEC	Equivalent to OECD 421	≥ 300 ppm	13 weeks (6h/day, 5days/week)	Rat (M/F)	no effect	Read-across
	NOAEC	Equivalent to OECD 422	> 1000 mg/kg bw/day	6 weeks/daily	Rat (M/F)	no effect	Read-across

Judgement is based on the relevant ingredients

Conclusion: Not classified for reprotoxic or developmental toxicity

TOXICITY OTHER EFFECTS

Orac Decofix Power

No (test)data on the mixture available

CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

Orac Decofix Power

No effects known.

12: ECOLOGICAL INFORMATION

12.1 Toxicity

Orac Decofix Power

No (test)data on the mixture available

trimethoxyvinylsilane								
	Parameter	Method	Value	Dur.	Species	Test design	Fresh/salt water	Value determ.
Acute toxicity fishes	LC50		191 mg/l	96 h	Oncorhynchus mykiss		fresh water	Experimental Nominal concentr.
Acute toxicity crustacea	EC50	EU Method C.2	168,7 mg/l	48 h	Daphnia magna	Static system	fresh water	Experimental, GLP
Toxicity algae and other aquatic plants	ECS0	EPA 67014-73-0	210 mg/l	7 day(s)	Pseudokirchneria subcapitata	Static system	Fresh water	Experimental Nominal concentr.
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	28.1 mg/l	21 days	Daphnia magna	Semi-static	Fresh water	Experimental GLP Data waiving
Toxicity sediment organisms								
Toxicity soil macro-organisms								Data waiving
Toxicity soil micro-organisms								Data waiving
Toxicity terrestrial plants								Data waiving
Toxicity other terrestrial organisms								Data waiving
Toxicity birds								Data waiving
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate								
	Parameter	Method	Value	Dur.	Species	Test design	Fresh/salt water	Value determ.
Acute toxicity fishes	LC50	OECD 203	>100 mg/l	96 h	Danio rerio	Semi-static	Fresh water	Experimental, GLP
Toxicity algae and other aquatic plants	ECS0	other	61 mg/l	72 h	Scenedesmus Subspicatus	Static system	Fresh water	Experimental biomass
Long-term toxicity aquatic crustacea	NOEC	OECD 211	2 µg/l	21 days	Daphnia magna	Semi-static	Fresh water	Experimental, GLP
Toxicity aquatic micro-organisms	IC50	OECD 209	> 100mg/l	3 h	Activated sludge	Static	Fresh water	Experimental
dioctylbis(pentane-2,4-dionato-0,0')tin								
	Parameter	Method	Value	Dur.	Species	Test design	Fresh/salt water	Value determ.
Acute toxicity fishes	LC50	OECD 203	86 mg/l	96 h	Pisces	Static system		Experimental
Acute toxicity crustacea	EC50	OECD 202	58,6 mg/l	48 h	Daphnia magna	Static system		Experimental
Toxicity algae and other aquatic plants	EC50	OECD 201	300 mg/l	24 h	Scenedesmus Subspicatus	Static system		Experimental
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics								
	Parameter	Method	Value	Dur.	Species	Test design	Fresh/salt water	Value determ.
Acute toxicity fishes	LC50	OECD 203	> 1028 mg/l	96 h	Scophthalmus maximus			Experimental
Acute toxicity crustacea	LC50	other	> 3193 mg/l	48 h	Acartia tonsa			Experimental
Toxicity algae and other aquatic plants	EC50	ISO 10253	> 10000 mg/l	72 h	Skeletonema costatum			QSAR

Long-term toxicity fish	NOEL		> 1000 mg/l	28 days	Oncorhynchus mykiss			QSAR
Long-term toxicity aquatic crustacea	NOEL		> 1000 mg/l	21 days	Daphnia magna			QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static	Fresh water	Experimental
<u>reaction mass of: N,N'-ethane-1,2-diybis(hexanamide)/12-hydroxy-N-[2-[(1-oxihexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diybis(12-hydroxyoctadecanamide)</u>								
	Parameter	Method	Value	Dur.	Species	Test design	Fresh/salt water	Value determ.
Acute toxicity fishes	LC50		> 1000 mg/l	96 h	Oncorhynchus mykiss			Literature study
Acute toxicity crustacea	EC50		> 1000 mg/l	48 h	Daphnia magna			Literature study
Toxicity algae and other aquatic plants	EC50	EPIWIN 3.10	85 mg/l	96 h	Algae			Calculated value
Long-term toxicity aquatic crustacea	NOC		0,9 mg/l	21 days	Daphnia magna	Semi-static	Fresh water	Experimental

Classification is based on the relevant ingredients

Conclusion: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

<u>trimethoxyvinylsilane</u>				
Biodegradation water	Method		Value	Duration
	OECD 301F: Manometric Respiratory test		51 %; GLP	28 day(s)
	Method		Value	Conc. OH-radicals
Phototransformation air (DT50 air)			0.56 day(s)	50000/cm ³
	Method		Value	Duration
Biodegradation soil				
	Method		Value	Primary degradation/mineralisation
Half-life water (t1/2 water)	OECD 111: Hydrolysis as a function of pH		< 2.4 h; pH = 7	Primary degradation
				Value determination
				Weight of evidence
<u>bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate</u>				
Biodegradation water	Method		Value	Duration
	OECD 301B: CO2 Evolution Test		2 %	28 day(s)
				Value determination
				Experimental
<u>dioctylbis(pentane-2,4-dionato-O,O')tin</u>				
Biodegradation water	Method		Value	Duration
	OECD 301F: Manometric Respiratory test		9 %; GLP	28 day(s)
				Value determination
				Experimental
<u>hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics</u>				
Biodegradation water	Method		Value	Duration
	OECD 306: Biodegradability in Seawater		74 %	28 day(s)
				Value determination
				Experimental
Phototransformation water (DT50 water)	Method		Value	Conc. OH-radicals
				No effect
	Method		Value	Primary degradation/mineralisation
Half-life soil (t1/2 soil)				No effect
				Value determination
<u>reaction mass of: N,N'-ethane-1,2-diybis(hexanamide)/12-hydroxy-N-[2-[(1-oxihexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diybis(12-hydroxyoctadecanamide)</u>				
Biodegradation water	Method		Value	Duration
			20 %	28 day(s)
				Value determination
				Literature study

Conclusion: Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

Orac Decofix Power						
Log Kow						
	Method	Remark	Value	Temperature		Value determination
		Not applicable (mixture)				
trimethoxyvinylsilane						
BCF other aquatic organisms						
	Method	Remark	Value	Temperature		Value determination
						Data waiving
Log Kow	KOWWIN	Calculated	-2	20 °C		QSAR
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-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
Log 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 °C		Experimental value
dioctylbis(pentane-2,4-dionato-0,0')tin						
Log Kow	Method	Remark	Value	Temperature		Value determination
		No data available				
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics						
Log Kow	Method	Remark	Value	Temperature		Value determination
		No data available				
reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)						
Log Kow	Method	Remark	Value	Temperature		Value determination
	EU method A.8		> 6			Experimental value

Conclusion: Contains bioaccumulative component(s)

12.4 Mobility in soil

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 m ³ /mol		25 °C			Estimated value
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
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics						
Percent distribution	Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water
	Mackay level III	8.3 %		83.2 %	7.4 %	1 %
						Calculated value

Conclusion: Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfill(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

Orac Decofix Power

- 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)

reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

- Ground water
Ground water pollutant

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 to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly.

All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

European Union

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

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

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

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

15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
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< 4.6753 %	
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< 65.4542 g/l	
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REACH Annex XVII - Restriction

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

- trimethoxyvinylsilane

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

- hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:

(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;

(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;

(c) hazard class 4.1;

(d) hazard class 5.1.

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 accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'

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

Organostannic compounds

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 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) compound: (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, 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.

: 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.

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, - 'whoopie' 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

Orac Decofix Power

No data available

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

Orac Decofix Power

Waste identification (the Netherlands) LWCA (the Netherlands): KGA category 05

National legislation France

Orac Decofix Power

No data available

National legislation Germany

Orac Decofix Power

WGK 1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

trimethoxyvinylsilane

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-0,0')tin

TA-Luft 5.2.5

reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

TA-Luft 5.2.5; I

National legislation United Kingdom

Orac Decofix Power

No data available

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

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

Other relevant data

Orac Decofix Power

No data available

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

- Skin absorption:

Tin organic compounds, as Sn; Skin; Danger of cutaneous absorption.

- TLV - Carcinogen:

Tin organic compounds, as Sn; A4

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.