SAFETY DATA SHEET

blaugelb

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

blaugelb Hybrid Polymer Crystal

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

1.1. Product identifier

Product name Registration number REACH Product type REACH

- : blaugelb Hybrid Polymer Crystal
- : Not applicable (mixture) : Mixture

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

1.2.1 Relevant identified uses Adhesive Sealant

<u>1.2.2 Uses advised against</u> No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Meesenburg Groβhandel KG Westerallee 162 DE-24941 Flensburg ☎ +49 461 58 08 20 00 ➡ +49 461 58 08 11 01 U.Weingaertner@meesenburg.de www.meesenburg.de

Manufacturer of the product

Meesenburg Groβhandel KG Westerallee 162 DE-24941 Flensburg ☎ +49 461 58 08 20 00 ➡ +49 461 58 08 11 01 U.Weingaertner@meesenburg.de

1.4. Emergency telephone number

24h/24h:

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Giftnotrufzentrale Munich +49 (0)89 – 19240 (DE/GB)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Class	Category	Hazard statements		
Aquatic Chronic	category 3	H412: Harmful to aquatic life with lon	g lasting effects.	
.2. Label elements				
Hazard pictogram	IS			
No pictogra	n is used			
Signal word	No sign	al word		
H-statements				
H412	Harmfu	l to aquatic life with long lasting effects.		
P-statements				
P101	If medie	cal advice is needed, have product containe	r or label at hand.	
P102	Keep o	ut of reach of children.		
P273	Avoid r	elease to the environment.		
P501	Dispose	of contents/container in accordance with	ocal/regional/national/international regulation.	
.3. Other hazards				
ed by: Brandweerinforr	natiecentrum voor	gevaarlijke stoffen vzw (BIG)	Publication date: 2011-07-26	
nische Schoolstraat 43 A //www.big.be 3 vzw	A, B-2440 Geel		Date of revision: 2016-01-01	
on for revision: 3				

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No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
trimethoxyvinylsilane 01-2119513215-52	2768-02-7 220-449-8	1% <c<3%< td=""><td>Flam. Liq. 3; H226 Acute Tox. 4; H332</td><td>(1)(10)</td><td>Constituent</td></c<3%<>	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>Skin Irrit. 2; H315 Eye Dam. 1; H318</td><td>(1)(10)</td><td>Constituent</td></c<3%<>	Skin Irrit. 2; H315 Eye Dam. 1; H318	(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<1%< td=""><td>STOT RE 1; H372 Acute Tox. 4; H302 Aquatic Chronic 1; H410</td><td>(1)(9)</td><td>Constituent</td></c<1%<>	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>STOT SE 2; H371 STOT RE 2; H373 Skin Sens. 1; H317</td><td>(1)(8)(10)</td><td>Constituent</td></c<1%<>	STOT SE 2; H371 STOT RE 2; H373 Skin Sens. 1; H317	(1)(8)(10)	Constituent

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

(8) Specific concentration limits, see heading 16

(9) M-factor, see heading 16

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

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

After skin contact:

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

After eye contact:

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

After ingestion:

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

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

4.2.1 Acute symptoms

- After inhalation:
- No effects known.
- After skin contact:

No effects known.

After eye contact:

Slight irritation.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Polyvalent foam. Dry chemical powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

5.3.1 Instructions:

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

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

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. Prevent soil and water pollution. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

Cover the solid spill with sand/kieselguhr. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

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

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

Plastics

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

Belgium

Etain (composés organiques de) (en Sn)	Time-weighted average exposure limit 8 h	0.1 mg/m ³
	Short time value	0.2 mg/m ³
The Netherlands		

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)	Short time value (Priv	ate occupational exposure limit v	value) 0.2 mg/m ³
	<u>.</u>		
1 Sn	Time-weighted average	ge exposure limit 8 h (VL: Valeur	non réglementaire0.1 mg/m³
	indicative)		
	Short time value (VL:	Valeur non réglementaire indicat	ive) 0.2 mg/m ³
vhexatin (ISO). (as Sn)	Time-weighted average	ge exposure limit 8 h (Workplace	exposure limit 0.1 mg/m ³
((EH40/2005))	5······· - ····· - ·· (·· - ·····	
	Short time value (Wo	rkplace exposure limit (EH40/200	05)) 0.2 mg/m ³
	Time-weighted avera	ge exposure limit 8 h (TLV - Adop	ted Value) 0.1 mg/m ³
			0.2 mg/m ³
	I ·	. ,	
	below.		
listed below.			
ing the substance or mixtu	ure as intended		
vailable these will be listed	below.		
Туре		Value	Remark
Long-term systemic ef	fects inhalation	4.9 mg/m ³	
Long-term systemic ef	fects dermal	0.69 mg/kg bw/day	
Туре		Value	Remark
Long-term systemic ef	fects inhalation	58 mg/m³	
Long-term systemic ef	fects dermal	8.3 mg/kg bw/day	
dyl) [[3,5-bis(1,1-dimethyle	ethyl)-4-hydroxyphenyl]m	nethyl]butylmalonate	
Туре		Value	Remark
Long-term systemic ef	fects dermal	0.07 mg/kg bw/day	
		L	
			Remark
		5:	
,			
		ş	
· ·	fects dermai	0.07 mg/kg bw/day	
Тупе		Value	Remark
	fects inhalation		
		<u> </u>	
,			
		0.5 116/16 517/003	
Type		Value	Remark
	fects inhalation		
		÷.	
		0.0.1	
		Value	Remark
Type Long-term systemic ef	fects inhalation	0.01 mg/m ³	
		0.01 mg/m³ 33 μg/kg bw/day	
	vailable these will be listed e listed below. ing the substance or mixture vailable these will be listed Type Long-term systemic eff Long-term systemic eff Long-term systemic eff (dyl) [[3,5-bis(1,1-dimethyle Long-term systemic eff Long-term systemic eff Long-term systemic eff Long-term systemic eff Long-term systemic eff Acute systemic effects Long-term local effects Long-term systemic eff Acute systemic effects Long-term systemic eff Acute systemic effects Long-term systemic effects Long-term systemic effects Long-term systemic effects Acute systemic effects Acute systemic effects Acute systemic effects Acute systemic effects Cong-term systemic effects Co	n Sn Time-weighted averagindicative) Short time value (VL: yhexatin (ISO), (as Sn) Time-weighted averagindicative) Short time value (Wointime value (Wointime value (Wointime value (Wointime value (Wointime value (TLV)) vailable these will be listed below. E listed below. Ingente substance or mixture as intended vailable these will be listed below. Ingente substance or mixture as intended vailable these will be listed below. Ingenter systemic effects inhalation Long-term systemic effects dermal (Long-term systemic effects dermal (Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects dermal Acute systemic effects oral Type Long-term systemic effects oral Cong-term systemic effects oral Cong-term systemic effects oral Cong-term systemic effects oral Cong-term systemic effects oral	1 Sn Time-weighted average exposure limit 8 h (VL: Valeur rindicative) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Short time value (Workplace exposure limit 8 h (Workplace (EH40/2005)) Short time value (Workplace exposure limit 8 h (TLV - Adopted Value) Time-weighted average exposure limit 8 h (TLV - Adopted Value) valiable these will be listed below. Steed below. ig the substance or mixture as intended valiable these will be listed below. A 9 mg/m ³ Long-term systemic effects inhalation 4.9 mg/m ³ Long-term systemic effects dermal 0.69 mg/kg bw/day Type Value Long-term systemic effects inhalation 5.8 mg/m ³ Long-term systemic effects inhalation 0.5 mg/m ³ Long-term systemic effects dermal 0.07 mg/kg bw/day Cype Value Long-term systemic effects inhalation 0.05 mg/m ³ Long-term systemic effects inhalation 0.05 mg/m ³ Long-term systemic effects inhalation 0.05 mg/m ³ Long-term systemic effects inhalation 0.07 mg/kg bw/day O'Itin Ype Value Long-term systemic effects

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Compartments	Value	Remark	
Fresh water	0.34 mg/l		
Marine water	0.034 mg/l		
Aqua (intermittent releases)	3.4 mg/l		
STP	110 mg/l		
Fresh water sediment	1.24 mg/kg sediment dw		
Marine water sediment	0.12 mg/kg sediment dw		
Soil	0.052 mg/kg soil dw		
(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		
s(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5	-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]bu	tylmalonate	
Compartments	Value	Remark	
Fresh water	0 mg/l		
Marine water	0 mg/l		
Aqua (intermittent releases)	0.61 mg/l		
STP	1 mg/l		
Fresh water sediment	504.4 mg/kg sediment dw		
Marine water sediment	50.44 mg/kg sediment dw		
Soil	1 mg/kg soil dw		
octylbis(pentane-2,4-dionato-O,O')tin			
Compartments	Value	Remark	
Fresh water	0.026 mg/l		
Marine water	0.0026 mg/l		
Aqua (intermittent releases)	0.26 mg/l		
STP	1 mg/l		
Fresh water sediment	0.155 mg/kg sediment dw		
Marine water sediment	0.0155 mg/kg sediment dw		

If applicable and available it will be listed below.

8.2. Exposure controls

8.

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

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat.

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

Respiratory protection not required in normal conditions.

b) Hand protection:

Gloves.

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical form

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Odour	Almost odourless	
Odour threshold	No data available	
Colour	Variable in colour, depending on the composition	
Particle size	No data available	
Explosion limits	No data available	
Flammability	Not easily combustible	
Log Kow	Not applicable (mixture)	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	
Melting point	No data available	
Boiling point	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Relative vapour density	No data available	
Vapour pressure	No data available	
Solubility	water ; insoluble	
Relative density	1.06	
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	
рН	No data available	

9.2. Other information

Surface tension	No data available
Absolute density	1060 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions No data available.

10.4. Conditions to avoid

Keep away from naked flames/heat.

10.5. Incompatible materials No data available.

NO Uata available.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects 11.1.1 Test results

Acute toxicity

<u>blaugelb Hybrid Polymer Crystal</u> No (test)data on the mixture available

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	7120 mg/kg		Rat (male)	Experimental value	
Oral	ral LD50 Equivalent to 0 401		7236 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	3.36 ml/kg bw	24 h	Rabbit (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	4 mg/kg bw	24 week(s)	Rat (male/female)	QSAR	
Inhalation (vapours)) LC50	Equivalent to OECD 403	16.8 mg/l	4 h	Rat (male/female)	Experimental value	
trimethoxysilyl)propy	/lamine		1				L
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2.970 ml/kg bw		Rat (male)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	11.3 ml/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)) LC50		> 5 ppm	6 h	Rat (male)	Read-across	
Inhalation (vapours)) LC50	OECD 403	> 16 ppm	6 h	Rat (female)	Read-across	
(1.2.2.6.6-pentamet)	vl-4-piperidvl) [[3,5-bis(1,1-dimethyl	lethyl)-4-hydroxyph	envllmethvllbutvlma	lonate		
Route of exposure			Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	1490 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 3170 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	> 460 mg/m³ air	4 h	Rat (male/female)	Experimental value	
octylbis(pentane-2,4-	dionato-0,0')t	in		•			
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	
Inhalation (vapours)) LC50	Equivalent to OECD 403	1224 ppm	4 h	Rat (male/female)	Experimental value	
gement is based on	the relevant in	gredients		•	·		
osinent is based OII							
•							
clusion	toxicity						
clusion t classified for acute	toxicity						
clusion t classified for acute	toxicity						
clusion tr classified for acute on/irritation elb Hybrid Polymer Ci	ystal	:					
clusion t classified for acute on/irritation <u>elb Hybrid Polymer Ci</u> (test)data on the mi	ystal	Ŷ					
clusion tr classified for acute on/irritation <u>elb Hybrid Polymer Ci</u> (test)data on the mi <u>methoxyvinylsilane</u>	<u>ystal</u> xture available	Method	Exposure time	Time point	Species	Value determination	Remark
clusion t classified for acute on/irritation elb Hybrid Polymer Ci (test)data on the mi methoxyvinylsilane Route of exposure	<u>ystal</u> xture available		Exposure time	Time point 1; 24; 48; 72 hou	-		
clusion t classified for acute on/irritation elb Hybrid Polymer Ci (test)data on the mi methoxyvinylsilane Route of exposure	y <u>stal</u> xture available Result	Method	•		-	determination	e
Clusion t classified for acute on/irritation elb Hybrid Polymer Cr (test)data on the mi methoxyvinylsilane Route of exposure Eye Skin	<u>ystal</u> xture available Result Not irritating Not irritating	Method	24 h	1; 24; 48; 72 hou	rs Rabbit	determination Experimental valu	e
clusion t classified for acute on/irritation elb Hybrid Polymer Cr (test)data on the mi methoxyvinylsilane Route of exposure Eye Skin trimethoxysilyl)prop	<u>ystal</u> xture available Result Not irritating Not irritating <u>/lamine</u>	Method	24 h	1; 24; 48; 72 hou	rs Rabbit	determination Experimental valu	e
clusion ot classified for acute on/irritation elb Hybrid Polymer Crophysical (except) o (test)data on the minethoxyvinylsilane Route of exposure Eye Skin (trimethoxysilyl)propy Route of exposure Eye Sterion Eye Skin Eye Eye Standard (exposure) Eye Eye Route of exposure Eye	<u>ystal</u> xture available Result Not irritating Not irritating <u>/lamine</u>	Method OECD 405	24 h 24 h Exposure time	1; 24; 48; 72 hou 24; 48; 72 hours	rs Rabbit Rabbit	determination Experimental valu Experimental valu Value	e e

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

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Route of exposure	Result	Method	Exp	oosure time	Time point	Species	Value	Remark
E	Net invitations				24.72 h a	Dahhit	determination	-
Eye Skin	Not irritating	OECD 40 OECD 40			24; 72 hours 1 hour	Rabbit Rabbit	Experimental value Experimental value	
Idgement is based or	Not irritating		4 1		1 nour	Kabbil	Experimental value	
nclusion	the relevant i	rigieulents						
lot classified as irritati	ing to the skin							
lot classified as irritat	0							
lot classified as irritati								
atory or skin sensitisa	ation							
gelb Hybrid Polymer (
lo (test)data on the m	ixture availabl	.e						
imethoxyvinylsilane					-			-
Route of exposure	Result	Method	Exp	osure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406				Guinea pig	Experimental value	
		0200400				(male/female)		
-(trimethoxysilyl)prop	vlamine					, ,		
Route of exposure		Method	Exp	osure time		Species	Value determination	Remark
					point			
Skin	Not sensitizing	OECD 406	72 ł	1		Guinea pig	Experimental value	
(1						(male/female)		
is(1,2,2,6,6-pentamet Route of exposure		<u>Method</u>		<u>-4-hydroxyphe</u> osure time	nyl]methyl]butylmalo Observation time	nate Species	Value determination	Bomark
Route of exposure	Nesult	wiethou	Exp	une une	point	species	value determination	Remark
Skin	Not sensitizing	Other				Guinea pig	Experimental value	
	U					(male/female)		
ioctylbis(pentane-2,4	-dionato-O,O')	itin			•		•	•
Route of exposure	Result	Method	Exp	osure time		Species	Value determination	Remark
cl :		0505 400			point			
	Sensitizing	OECD 429				Mouse (female)	Experimental value	
udgement is based or nclusion	the relevant li	ngreaients						
lot classified as sensit	izing for skin							
lot classified as sensit	•	ation						
c target organ toxicit	y							
gelb Hybrid Polymer (rvstal							
(test)data on the mix								
imethoxyvinylsilane								
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
								determinat
Oral (stomach	LOAEL	OECD 422	62.5 mg/kg	Thymus	Weight	6 weeks (daily) -	8 Rat (female)	Experiment
tube)		Subchronic	bw/day 100 ppm		reduction Change in urine	weeks (daily) e 14 weeks (6h/da	ay, 5 Rat (male)	value
	LOAEC		100 ppm		composition	days/week)	ay, 5 Kat (male)	Experiment value
Inhalation		LOXICILV PSI						
Inhalation (vapours)		toxicity test Subchronic	10 nnm			14 weeks (6h/da	av. 5 Rat	
Inhalation	NOAEC	Subchronic toxicity test	10 ppm		No effect	14 weeks (6h/da days/week)	ay, 5 Rat (male/female)	
Inhalation (vapours) Inhalation (vapours)	NOAEC	Subchronic	10 ppm					Experiment
Inhalation (vapours) Inhalation (vapours)	NOAEC	Subchronic	10 ppm Value	Organ				Experiment
Inhalation (vapours) Inhalation (vapours) -(trimethoxysilyl)prop Route of exposure	NOAEC oylamine Parameter	Subchronic toxicity test	Value	Organ	No effect	days/week)	(male/female) Species	Experiment value Value determinat
Inhalation (vapours) Inhalation (vapours) -(trimethoxysilyl)prop	NOAEC	Subchronic toxicity test		Organ Liver	No effect	days/week) Exposure time 92 day(s)	(male/female)	Experiment value Value

					weight; food consumption			
Oral (stomach tube)	NOAEL		200 mg/kg bw/day	Liver	No effect		Rat (male/female)	Read-across
		Equivalent to OECD 412	147 mg/m³ air			4 weeks (6h/day, 5 days/week)	Rat (male)	Read-across

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Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatio
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

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	OECD 422	0.3 mg/kg bw/day - 0.5 mg/kg bw/day	Thymus	No effect	28 day(s)	Rat (male/female)	Experimental value
Dermal								Data waiving
Inhalation (vapours)	NOEC	Equivalent to OECD 413	100 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	LOAEC	Equivalent to OECD 413	650 ppm	Various organs	Histopathology	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

blaugelb Hybrid Polymer Crystal

No (test)data on the mixture available

Result	Method	Test substrate	Effect	Value determination
Positive with metabolic activation, positive without metabolic activation	OECD 473	CHL/IU cells	Chromosome aberrations	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

3-(trimethoxysilyl)propylamine

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster lung fibroblasts (V79)	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 471	Escherichia coli	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
1,2,2,6,6-pentamethyl-4-piper	idyl) [[3,5-bis(1,1-dimet	hylethyl)-4-hydroxyphenyl]methyl]butylma	llonate	
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	OECD 473	Chinese hamster ovary (CHO)		Experimental value

Reason for revision: 3

Publication date: 2011-07-26

Date of revision: 2016-01-01

Revision number: 0400

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

Result	Method	Test substrate	Effect	Value determination
Negative		Chinese hamster lung fibroblasts (V79)	No effect	Experimental value
Negative		Chinese hamster lung fibroblasts (V79)	No effect	Experimental value
Negative	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Mutagenicity (in vivo)

blaugelb Hybrid Polymer Crystal

No (test)data on the mixture available

trimethoxyvinylsilane

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	EPA 560/6-83-001		Mouse (male/female)	Blood	Experimental value
B-(trimethoxysilyl)propylamine	2				
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)	Bone marrow	Read-across
lioctylbis(pentane-2,4-dionate					

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474		Mouse (male)	Bone marrow	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

blaugelb Hybrid Polymer Crystal

No (test)data on the mixture available

3-(trimethoxysilyl)propylamine

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Dermal	NOAEL	Carcinogenic toxicity study	0,	104 weeks (3 times/week)		No carcinogenic effect		Inconclusive, insufficient data

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

blaugelb Hybrid Polymer Crystal

No (test)data on the mixture available

trimethoxyvinylsilane

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

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatior
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

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

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

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

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

Judgement is based on the relevant ingredients

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

blaugelb Hybrid Polymer Crystal No (test)data on the mixture available

Chronic effects from short and long-term exposure

blaugelb Hybrid Polymer Crystal No effects known.

SECTION 12: Ecological information

12.1. Toxicity

blaugelb Hybrid Polymer Crystal

No (test)data on the mixture available trimethoxyvinylsilane

	Parameter	Method	Value	Duration	Species	•	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		191 mg/l		Oncorhynchus mykiss			Experimental value; Nominal concentration
Acute toxicity invertebrates	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)	Pseudokirchneriel la subcapitata	Static system		Experimental value; Nominal concentration
Long-term toxicity fish								Data waiving
Long-term toxicity invertebrates								Data waiving

Reason for revision: 3

3-(trimethoxysilyl)propylamine Parameter Method Value Duration Species Test design Fresh/salt Value determination water Acute toxicity fishes LC50 OECD 203 > 934 mg/l 96 h Danio rerio Semi-static Fresh water Read-across; GLP system Acute toxicity invertebrates EC50 OECD 202 331 mg/l 48 h Static system Fresh water Read-across; GLP Daphnia magna Toxicity algae and other aquatic EC50 EU Method > 1000 mg/l 72 h Desmodesmus Static system Fresh water Read-across; GLP plants C.3 subspicatus FC50 Static system Fresh water Toxicity aquatic Other 43 mg/l 5.75 h Pseudomonas Read-across; GLP micro-organisms putida bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate Parameter Method Value Duration Species Test design Fresh/salt Value determination water Acute toxicity fishes LC50 OECD 203 > 100 mg/l 96 h -resh water Experimental value; Danio rerio Semi-static GLP system 72 h Toxicity algae and other aquatic EC50 Other 61 mg/l Scenedesmus Static system Fresh water Experimental value; plants subspicatus Biomass OECD 211 Long-term toxicity invertebrates NOEC 2 µg/l 21 day(s) Daphnia magna Semi-static Fresh water Experimental value; GLP system Toxicity aquatic C50 OECD 209 > 100 mg/l 3 h Activated sludge Static system Fresh water Experimental value micro-organisms

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

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
							water	
Acute toxicity fishes	LC50	OECD 203	86 mg/l	96 h	Pisces	Static system		Experimental value
Acute toxicity invertebrates	EC50	OECD 202	58.6 mg/l	48 h	Daphnia magna	Static system		Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	300 mg/l		Scenedesmus subspicatus	Static system		Experimental value

Classification is based on the relevant ingredients

Conclusion

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

trimethoxyvinylsilane

Method	Value	Duration	Value determination
wethod	value		value determination
OECD 301F: Manometric Respirometry Test	51 %; GLP	28 day(s)	Experimental value
Phototransformation air (DT50 air)			
Method	Value	Conc. OH-radicals	Value determination
	0.56 day(s)	500000 /cm ³	Calculated value
Half-life water (t1/2 water)		·	·
Method	Value	Primary	Value determination
		degradation/mineralisation	
OECD 111: Hydrolysis as a function of pH	< 2.4 h; pH = 7	Primary degradation	Weight of evidence
(trimethoxysilyl)propylamine			
Biodegradation water			
Method	Value	Duration	Value determination
EU Method C.4	67 %; GLP	28 day(s)	Experimental value
Half-life water (t1/2 water)			

N	/lethod		Primary degradation/mineralisation	Value determination
		4 h; pH = 7	Primary degradation	QSAR
his(1	2 2 6 6-pentamethyl-4-piperidyl) [[3 5-bis(1	1-dimethylethyl)-4-hydroxynhenyllm	ethyl]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

Conclusion

Contains non readily biodegradable component(s)

Reason for revision: 3

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

Revision number: 0400

Product number: 51345

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12.3. Bioaccumulative potential

blaugelb Hybrid Polymer Crystal

Vethod	Ro	mark		Value		Temperature		Value determination	
ictildu -			ole (mixture)			remperature			
		e applicat							
rimethoxyvinylsilar	_								
BCF other aquatic									
Parameter	Method		Value	Duration	Speci	es		Value determin	ation
								Data waiving	
Log Kow									
Method		Remark		Value		Temperature		Value determination	n
KOWWIN		Calculate	ed	-2		20 °C		QSAR	
8-(trimethoxysilyl)p	ropylamine								
Log Kow		Damarda		Value		T			
Method		Remark		Value		Temperature		Value determinatio	n
				0.2		20 °C		QSAR	
	nethyl-4-piper	idyl) 3,5	-bis(1,1-dimeth	ylethyl)-4-hydroxyphe	enyl[methyl]b	<u>utylmalonate</u>			
BCF fishes Parameter	Method		Value	Duration	Speci	96		Value determin	ation
BCF	OECD 305		24.3 - 437.1	60 day(s)	-	es nus carpio		Experimental va	
	0500 305	,	24.3 - 437.1		Cyprii	ius cai più		experimental va	iue
Log Kow Method		Remark		Value		Temperature		Value determinatio	n
OECD 107		Kennark		3.7		23 °C		Experimental value	**1
OECD 107 OECD 117				> 6.5		23 °C		Experimental value	
Other				4.2		23 °C		Experimental value	
lioctylbis(pentane-2	2 4-dianata-0	O')tin		7.2		23 0		Experimental value	
Log Kow	_,⊣-uionato-O,	<u>, </u>							
Method		Remark		Value		Temperature		Value determination	n
			available						
nclusion									
2.4. Mobility in rimethoxyvinylsilar (log) Koc		nent(s)		Mothod		hal		Value determine	ion
rimethoxyvinylsilar	soil	nent(s)		Method		Valu	e	Value determina Data waiving	ion
rimethoxyvinylsilan (log) Koc Parameter	soil			Method		Valu	le	Value determina Data waiving	ion
rimethoxyvinylsilan (log) Koc	soil le Law constant			Method		Valu	e		
rimethoxyvinylsilan (log) Koc Parameter Volatility (Henry's	soil le Law constant	t H)					e	Data waiving	
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ /	soil <u>e</u> Law constant r mol	t H) Method	-bis(1,1-dimeth	Temperature	enyl]methyl]b	Remark	e	Data waiving Value determination	
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ /	soil <u>e</u> Law constant r mol	t H) Method	-bis(1,1-dimeth	Temperature 25 °C	enyl]methyl]b	Remark	e	Data waiving Value determination	
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ / pis(1,2,2,6,6-pentan	soil <u>e</u> Law constant r mol	t H) Method	-bis(1,1-dimeth	Temperature 25 °C	enyl]methyl]b	Remark		Data waiving Value determination	
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³) pis(1,2,2,6,6-pentan (log) Koc	soil <u>e</u> Law constant r mol	t H) Method	-bis(1,1-dimeth	Temperature 25 °C nylethyl)-4-hydroxypho Method	enyi]methyl]b CWIN v2.0	Remark utylmalonate Valu		Data waiving Value determination Estimated value	
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ / ois(1,2,2,6,6-pentan (log) Koc Parameter log Koc nclusion Contains componen 2.5. Results of P Due to insufficient d EC) No 1907/2006. 2.6. Other adve gelb Hybrid Polyme torinated greenhou one of the known co- cone-depleting pote	soil Law constant function and the second sec	t H) Method idyl) [[3,5 rb(s) into t vB asses hent can b gulation (E included in	the soil ssment e made whethe EU) No 517/201 n the list of fluc	Temperature 25 °C nylethyl)-4-hydroxyphe Method SRC PCKO sRC	CWIN v2.0	Remark utylmalonate Valu 3.04 eria of PBT and v	ie - 8.1 PvB accordir	Data waiving Value determination Estimated value Value determinat	ion
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ / ois(1,2,2,6,6-pentan (log) Koc Parameter log Koc nclusion Contains componen 2.5. Results of P Due to insufficient d EC) No 1907/2006. 2.6. Other adve gelb Hybrid Polyme torinated greenhou one of the known co- cone-depleting pote	soil Elaw constant fmol nethyl-4-piper at(s) that adsor PBT and vPv lata no statem rse effects er Crystal use gases (Reg omponents is i ential (ODP) erous for the o	t H) Method idyl) [[3,5 rb(s) into t vB asses hent can b gulation (E included in	the soil ssment e made whethe EU) No 517/201 n the list of fluc	Temperature 25 °C nylethyl)-4-hydroxyphe Method SRC PCKO er the component(s) f	CWIN v2.0	Remark utylmalonate Valu 3.04 eria of PBT and v	ie - 8.1 PvB accordir	Data waiving Value determination Estimated value Value determinat Calculated value	ion
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ / ois(1,2,2,6,6-pentan (log) Koc Parameter log Koc Contains componen 2.5. Results of P Due to insufficient d EC) No 1907/2006. 2.6. Other adveg gelb Hybrid Polyme torinated greenhou cone-depleting poto at classified as dang 8-(trimethoxysilyl)pro- 	soil E Law constant The constant A cons	t H) Method idyl) [[3,5 rb(s) into t vB asses hent can b gulation (E included in	the soil ssment e made whethe EU) No 517/201 n the list of fluc	Temperature 25 °C nylethyl)-4-hydroxyphe Method SRC PCKO sRC	CWIN v2.0	Remark utylmalonate Valu 3.04 eria of PBT and v	ie - 8.1 PvB accordir	Data waiving Value determination Estimated value Value determinat Calculated value	ion
rimethoxyvinylsilar (log) Koc Parameter Volatility (Henry's Value 8.72E-5 atm m ³ / ois(1,2,2,6,6-pentan (log) Koc Parameter log Koc nclusion Contains component 2.5. Results of P Due to insufficient d EC) No 1907/2006. 2.6. Other adveg gelb Hybrid Polyme torinated greenhou one of the known co cone-depleting poto ot classified as dang 8-(trimethoxysilyl)pr Ground water	soil E Law constant The constant A cons	t H) Method idyl) [[3,5 rb(s) into t vB asses hent can b gulation (E included in	the soil ssment e made whethe EU) No 517/201 n the list of fluc	Temperature 25 °C nylethyl)-4-hydroxyphe Method SRC PCKO sRC	CWIN v2.0	Remark utylmalonate Valu 3.04 eria of PBT and v ion (EU) No 517/2	ie - 8.1 PvB accordir	Data waiving Value determination Estimated value Value determination Calculated value Ing to Annex XIII of Regula 1-07-26	ion

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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

- 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

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

13.1.3 Packaging/Container

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

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

SECTION 14: Transport information

Road (ADR)

14.1. UN number		
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		
Rail (RID) 14.1. UN number		
Transport	Not subject	
14.2. UN proper shipping name	Not subject	
14.2. ON proper snipping name 14.3. Transport hazard class(es)		
Hazard identification number		
Class		
Class Classification code		
14.4. Packing group		
Packing group		
Labels 14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
	10	
14.6. Special precautions for user Special provisions		
Limited quantities		
Linited quantities		
nland waterways (ADN)		
14.1. UN number		
Transport	Not subject	
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Class		
Classification code		
14.4. Packing group		
on for revision: 3	Publication date: 2011-07-26	
	Date of revision: 2011-07-20	
ion number: 0400	Product number: 51345	14/
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	Packing group	
	Labels	
14	.5. Environmental hazards	
	Environmentally hazardous substance mark	no
14	.6. Special precautions for user	
	Special provisions	
	Limited quantities	
5 a a 1		·
	(IMDG/IMSBC)	
14	Transport	Netsubject
		Not subject
	.2. UN proper shipping name .3. Transport hazard class(es)	
14	Class	T
14	.4. Packing group	
	Packing group	
	Labels	
14	.5. Environmental hazards	
	Marine pollutant	-
	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	
Air (ICAO-TI/IATA-DGR)	
	.1. UN number	
	Transport	Not subject
14	.2. UN proper shipping name	
14	.3. Transport hazard class(es)	
	Class	
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: maximum net quantity per packaging	
	, , , , , , , , , , , , , , , , , , ,	

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
< 5.3 %	

REACH Annex XVII - Restriction

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

 trimethoxyvinylsilane 	Liquid substances or mixtures which are	1. Shall not be used in:
· 3-(trimethoxysilyl)propylamine	regarded as dangerous in accordance with	- ornamental articles intended to produce light or colour effects by means of different
· dioctylbis(pentane-2,4-dionato-0,0')tin	Directive 1999/45/EC or are fulfilling the criteria	phases, for example in ornamental lamps and ashtrays,
	for any of the following hazard classes or	 tricks and jokes,
	categories set out in Annex I to Regulation (EC)	- games for one or more participants, or any article intended to be used as such, even with
	No 1272/2008:	ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the
	(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8	market.3. Shall not be placed on the market if they contain a colouring agent, unless required
	types A and B, 2.9, 2.10, 2.12, 2.13 categories 1	for fiscal reasons, or perfume, or both, if they:
	and 2, 2.14 categories 1 and 2, 2.15 types A to	 can be used as fuel in decorative oil lamps for supply to the general public, and,
	F;	- present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for
	(b) hazard classes 3.1 to 3.6, 3.7 adverse effects	supply to the general public shall not be placed on the market unless they conform to the
	on sexual function and fertility or on	European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee
	development, 3.8 effects other than narcotic	for Standardisation (CEN).5. Without prejudice to the implementation of other Community
	effects, 3.9 and 3.10;	provisions relating to the classification, packaging and labelling of dangerous substances and
ason for revision: 3		Publication date: 2011-07-26

Reason for revision: 3

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	(c) hazard class 4.1; (d) hazard class 5.1.	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, 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 with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled with R65 or H304, shall by 1 December 2011, States shall make those data available to the Commission.'
• 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 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 appliance 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 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 there of 0, 1 % by weight of tin. b) Articles and mixtures not complying with point (a) 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 coating: containing DBT compounds as stabilisers when intended for outdoor rapinwater pipes, gutters and fittings, as well as covering material for roofing and façades, glowes, for buyly
	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.	 artificial snow and frost, "whoopee" cushions, silly string aerosols, imitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to
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	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 unles they conform to the requirements indicated.
National legislation Belgiu	<u>n</u>
<u>blaugelb Hybrid Polyme</u> No data available	er Crystal
dioctylbis(pentane-2,4- Résorption peau	dionato-O,O')tin Etain (composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuse ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct qu par présence de l'agent dans l'air.
National legislation The Ne	therlands
blaugelb Hybrid Polyme	
Waste identification (Netherlands)	
National legislation France	
blaugelb Hybrid Polyme No data available	
National legislation Germa	-
blaugelb Hybrid Polyme	
WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
trimethoxyvinylsilane ITA-Luft	5.2.5
<u>3-(trimethoxysilyl)prop</u> TA-Luft	<u>/lamine</u> 5.2.5
bis(1,2,2,6,6-pentamet) TA-Luft	nyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate
	5.2.1
dioctylbis(pentane-2,4- TA-Luft	dionato-O,O')tin 5.2.5
National legislation United	
<u>blaugelb Hybrid Polyme</u> No data available	er Crystal
dioctylbis(pentane-2,4-	dionato-O,O')tin Tin compounds, organic, except Cyhexatin (ISO), (as Sn); Sk
Skin absorption	Inn compounds, organic, except cynexatin (ISO), (as SH); Sk
Other relevant data blaugelb Hybrid Polyme No data available	er Crystal
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
5.2. Chemical safety as No chemical safety asse	sessment sssment has been conducted for the mixture.
TION 16: Other i	nformation
Full text of any H-statemer	nts referred to under headings 2 and 3:
-	uid and vapour.
H302 Harmful if swa	
H315 Causes skin irr H317 May cause an	itation. allergic skin reaction.
H318 Causes serious	
H332 Harmful if inh	
	nage to organs (immune system) if swallowed.
	e to organs through prolonged or repeated exposure.
	nage to organs through prolonged or repeated exposure if swallowed. quatic life with long lasting effects.
-	uatic 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
DIVIEL	
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on number: 0400	Product number: 51345 17 / 1

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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)	10	Chronic	ECHA
	[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalon			
Specific concentration limits CLP				
	dioctylbis(pentane-2,4-dionato-0,0')tin	2>5%	Skin Sens. 1: H317	TIB Chemicals

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