

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**RITO WATERSTOP LIQUID** Supercedes Date: 24-Feb-2022 Revision date 07-Sep-2022 Revision Number 1.02

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

#### 1.1. Product identifier

**Product Name** RITO WATERSTOP LIQUID

Pure substance/mixture Mixture

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

Recommended use Coatings

Uses advised against None known

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

#### **Company Name**

Bostik GmbH An der Bundesstrasse 16 33829 Borgholzhausen, Germany Tel: +49 (0) 5425 / 801 0 Fax: +49 (0) 5425 / 801 140

SDS.box-EU@bostik.com E-mail address

#### 1.4. Emergency telephone number

Ireland **NPIC - National Poison Information Centre** 

Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)

Healthcare Professionals: +353 (01) 8092566 (24 hour service)

**United Kingdom** +44 (1785) 272650

112 **Europe** 

#### **SECTION 2: Hazards identification**

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

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **EU Specific Hazard Statements**

EUH208 - Contains Trimethoxyvinylsilane & N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction

EUH210 - Safety data sheet available on request

#### Precautionary Statements - EU (§28, 1272/2008)

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

P102 - Keep out of reach of children

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#### 2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	EC No (EU Index No).	CAS No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	REACH registration number
Trimethoxyvinylsilane 1 - <2.5 %	220-449-8	2768-02-7	Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226)	-	-	-	01-2119513215- 52-XXXX
Titanium dioxide 0.1- <1 %	236-675-5	13463-67-7	[C]	-	-	-	01-2119489379- 17-XXXX
N-(3-(trimethoxysilyl)pro pyl)ethylenediamine 0.1- <1 %	217-164-6	1760-24-3	Eye Dam. 1 (H318) Skin Sens. 1B (H317) STOT SE 3 (H335)	-	-	-	01-2119970215- 39-XXXX
Bis(2,2,6,6-tetramethyl-4 -piperidyl) sebacate 0.1- <1 %	258-207-9	52829-07-9	Eye Dam. 1 (H318) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	-	-	-	01-2119537297- 32-XXXX
Dioctyltin oxide 0.1- <1 %	212-791-1	870-08-6	STOT SE 2 (H371)	-	-	-	01-2119971268- 27-xxxx

### Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	_
Methyl alcohol 67-56-1	200-659-6	1 - <2.5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-211943330 7-44-XXXX

Full text of H- and EUH-phrases: see section 16

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

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Chemical name	EC No (EU	CAS No	Oral LD50	Dermal LD50	Inhalation	Inhalation	Inhalation
	Index No)		mg/kg	mg/kg	LC50 - 4 hour -	LC50 - 4 hour -	LC50 - 4 hour -
					dust/mist -	vapour - mg/L	gas - ppm
					mg/L		
Trimethoxyvinylsilane	220-449-8	2768-02-7	-	-	-	11	-
Titanium dioxide	236-675-5	13463-67-7	-	-	-	-	-
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine	217-164-6	1760-24-3	-	-	1.5	-	-
Bis(2,2,6,6-tetramethyl- 4-piperidyl) sebacate	258-207-9	52829-07-9	-	-	-	-	-
Dioctyltin oxide	212-791-1	870-08-6	-	-	-	-	-

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### **Notes**

See section 16 for more information

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Chemical name	Notes	
Titanium dioxide - 13463-67-7	V,W,10	

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

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

**Inhalation** Remove to fresh air. If symptoms persist, call a doctor.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

**Skin contact** Wash off immediately with soap and plenty of water. In the case of skin irritation or

allergic reactions see a doctor.

**Ingestion** Call a doctor immediately. Do NOT induce vomiting. Rinse mouth thoroughly with water.

Never give anything by mouth to an unconscious person. Small amounts of toxic

methanol are released by hydrolysis.

**Self-protection of the first aider** Wear personal protective clothing (see section 8).

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

Symptoms None known.

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

Note to doctors Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by

hydrolysis and released upon curing.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

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Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

Thermal decomposition can lead to release of irritating gases and vapours.

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chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

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precautions for fire-fighters

Special protective equipment and Wear self contained breathing apparatus for fire fighting if necessary.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Do not get **Personal precautions** 

in eyes, on skin, or on clothing.

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section **Environmental precautions** 

12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal.

Pick up and transfer to properly labelled containers. Methods for cleaning up

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Ensure adequate ventilation. Use personal protection equipment. Avoid contact with skin, Advice on safe handling

eyes or clothing.

Do not eat, drink or smoke when using this product. Wash hands before breaks and after General hygiene considerations

work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated Storage Conditions

place. Keep away from food, drink and animal feedingstuffs.

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

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Specific use(s)

Coatings.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits** 

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

Chemical name	European Union	Ireland	United Kingdom
Limestone	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
1317-65-3		TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
		STEL: 30 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>
		STEL: 12 mg/m <sup>3</sup>	STEL: 12 mg/m <sup>3</sup>
Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 260 mg/m <sup>3</sup>	TWA: 260 mg/m <sup>3</sup>	TWA: 266 mg/m <sup>3</sup>
	*	STEL: 600 ppm	STEL: 250 ppm
		STEL: 780 mg/m <sup>3</sup>	STEL: 333 mg/m <sup>3</sup>
		Sk*	Sk*
Titanium dioxide	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
13463-67-7		TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
		STEL: 30 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>
		STEL: 12 mg/m <sup>3</sup>	STEL: 12 mg/m <sup>3</sup>
Dioctyltin oxide	-	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
870-08-6		STEL: 0.2 mg/m <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup>
			Sk*

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)					
Trimethoxyvinylsilane (2768-	02-7)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker Systemic health effects Long term	Inhalation	27,6 mg/m³			
worker Systemic health effects Long term	Dermal	3,9 mg/kg bw/d			

Titanium dioxide (13463-67-7)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker	Inhalation	10 mg/m³			
Long term Local health effects					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Long term Systemic health effects worker	Inhalation	35.5 mg/m³			
Long term Systemic health effects	Dermal	5 mg/kg bw/d			

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Dupercedes Date. 24-1 ep-2	022		Kevision Number
worker			
Short term	Dermal	5 mg/kg bw/d	
Systemic health effects	Domina.	o mg/ng zm/a	
worker			
Worker		L	L
Bis(2,2,6,6-tetramethyl-4-pip	peridyl) sebacate (52829-07-		
Туре	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	-
worker	Inhalation	2.82 mg/m <sup>3</sup>	
Short term			
Long term			
Systemic health effects			
worker	Dermal	1.6 mg/kg	+
	Dennai	1.0 mg/kg	
Long term			
Systemic health effects			
Dioctyltin oxide (870-08-6)			
Type	Exposure route	Derived No Effect Level	Safety factor
	· '	(DNEL)	
worker	Dermal	0.05 mg/kg bw/d	
Long term	Dermai	0.00 mg/kg bw/d	
Systemic health effects	labatati	0.004 ====/ 2	
worker	Inhalation	0.004 mg/m <sup>3</sup>	
Long term			
Systemic health effects			
Derived No Effect Level (DN Trimethoxyvinylsilane (2768	3-02-7)	Daminad Na Effect Lavel	0-1-1-1-1-1-1
Type	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
Consumer	Inhalation	18,9 mg/m³	
Systemic health effects			
Long term			
Consumer	Dermal	7,8 mg/kg bw/d	
Systemic health effects			
Long term			
Consumer	Oral	0,3 mg/kg bw/d	
Systemic health effects	O'ldi	o,o mg/kg bw/d	
Long term			
Titanium dioxide (13463-67-	7)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Canaumar	Orol		
Consumer	Oral	700 mg/kg bw/d	
Long term			
Systemic health effects			
N-(3-(trimethoxysilyl)propyl)	ethylenediamine (1760-24-3)	)	
туре Туре	Exposure route	Derived No Effect Level	Safety factor
ı ypc	Lyposure route	(DNEL)	Dalety lactor
Long term	Oral	2.5 mg/kg bw/d	
Systemic health effects		2.5 mg/ng 5w/d	
Consumer Long term	Inhalation	8.7 mg/m³	
CHAIL TOUTH	ממוניבוניות	18 / m//m3	

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8.7 mg/m<sup>3</sup>

mg/kg bw/d

Inhalation

Dermal

Long term Systemic health effects

Systemic health effects

Consumer Long term

Consumer

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Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer	Dermal	0.8 mg/kg			
Long term					
Systemic health effects					
Consumer	Oral	0.4 mg/kg			
Long term					
Systemic health effects					

Dioctyltin oxide (870-08-6)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	0.0005 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	0.025 mg/kg bw/d	
Consumer Long term Systemic health effects	Inhalation	0.0009 mg/m³	

# **Predicted No Effect Concentration** No information available. **(PNEC)**

Predicted No Effect Concentration (PNEC)				
Trimethoxyvinylsilane (2768-02-7)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.34 mg/l			
Marine water	0.034 mg/l			
Microorganisms in sewage treatment	110 mg/l			

Titanium dioxide (13463-67-7)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Marine water	0.0184 mg/l			
Freshwater sediment	1000 mg/kg			
Freshwater	0.184 mg/l			
Marine sediment	100 mg/kg			
Soil	100 mg/kg			
Microorganisms in sewage treatment	100 mg/l			
Freshwater - intermittent	0.193 mg/l			

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.062 mg/l			
Marine water	0.0062 mg/l			
Freshwater - intermittent	0.62 mg/l			
Freshwater sediment	0.05 mg/kg			
Marine sediment	0.005 mg/kg			
Soil	0.0075 mg/kg			
Sewage treatment plant	25 mg/l			

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.018 mg/l
Marine water	0.0018 mg/l
Freshwater sediment	29 mg/kg
Marine sediment	2.9 mg/kg
Soil	5.9 mg/kg

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Dioctyltin oxide (870-08-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater sediment	0.02798 mg/kg dry weight
Marine sediment	0.002798 mg/kg dry weight
Microorganisms in sewage treatment	100 mg/l

#### 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166

Hand protection Wear suitable gloves. Recommended Use:. Neoprene™. Nitrile rubber. Butyl rubber.

Glove thickness > 0.4 mm. The breakthrough time for the mentioned glove material is in

Spindle 3 @ 100 rpm @ 23 °C

general greater than 480 min. Gloves must conform to standard EN 374

Skin and body protection Wear suitable protective clothing.

In case of inadequate ventilation wear respiratory protection. Wear a respirator Respiratory protection

conforming to EN 140 with Type A/P2 filter or better.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387. White. Brown.

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Physical state** Liquid **Appearance** Paste Colour Grev

Odour Slight. Characteristic. **Odour threshold** No information available

**Values** Remarks • Method

No data available Melting point / freezing point Initial boiling point and boiling No data available

range

**Flammability** Not applicable for liquids .

Flammability Limit in Air None known

Upper flammability or explosive No data available limits

Lower flammability or explosive No data available

limits

> 61 °C Flash point CC (closed cup) Autoignition temperature No data available

No data available

**Decomposition temperature** None known

No data available

pH (as aqueous solution) No data available No data available

Kinematic viscosity Dynamic viscosity 10 - 20 Pa.s

Water solubility Reacts with water. Solubility(ies) No data available **Partition coefficient** No data available Vapour pressure No data available Relative density 1.4 - 1.6 No data available **Bulk Density** ca. 1.5 g/cm<sup>3</sup> Density

Relative vapour density Particle characteristics

Particle Size No information available Particle Size Distribution No information available

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9.2. Other information

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Solid content (%) No information available

VOC content No data available

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

### SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** Product cures with moisture.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical

None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Product cures with moisture. Protect from moisture.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are

formed by hydrolysis and released upon curing.

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

**Skin contact** Based on available data, the classification criteria are not met.

**Ingestion** Based on available data, the classification criteria are not met.

### Symptoms related to the physical, chemical and toxicological characteristics

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**Acute toxicity** 

**Symptoms** 

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

No information available.

ATEmix (dermal) 11,543.80 mg/kg ATEmix (inhalation-vapour) 863.60 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3540 mg/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
Titanium dioxide	>10000 mg/kg (Rattus)	LD50 > 5000 mg/Kg	= 5.09 mg/L (Rattus) 4 h
N-(3-(trimethoxysilyl)propyl)eth ylenediamine	LD50 = 2295 mg/kg (Rattus) EPA OPPTS 870.1100	LD50 > 2000 mg/kg (Oryctolagus cuniculus) EPA OPPTS 870.1200	1.49 - 2.44 mg/L (Rat) 4 h
Bis(2,2,6,6-tetramethyl-4-piperi dyl) sebacate	LD50 (Rattus)> 2000 mg/kg OECD 423	LD50 (Rattus) > 3 170 mg/kg OECD 402	=500 mg/m³ (Rattus) 4 h
Dioctyltin oxide	=2500 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	II IArmai	0.5 mL	24 hours	Non-irritant

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			Non-irritant
Acute Dermal					
Irritation/Corrosion					

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			Non-irritant
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye		24 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	Eye			Non-irritant

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Reproduction/Developmental Toxicity Screening

Test

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Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Bio(2,2,0,0 totalinotify i pipelicy) cobacció (02020 et 0)						
Method	Species	Results				
OECD Test No. 414: Pre-natal Development	Rat, Rabbit	reproductive toxicant				
Toxicity Study						

STOT - single exposure

Based on available data, the classification criteria are not met.

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Dioctyltin oxide (870-08-6)

Biodiyitiii oxido (or o oo o)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Oral	5 mg/kg	28 days	0.3 - 0.5 mg/kg
Combined Repeated Dose				-	bw/d May cause
Toxicity Study with the					damage to the
Reproduction/Developme					following organs:
ntal Toxicity Screening					Immune system
Test					

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL
Sub-chronic Inhalation					
Toxicity: 90-day Study					

Dioctyltin oxide (870-08-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat Rabbit			28 days	0.3 -0.5 mg/kg bw/d

Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

# **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Trimethoxyvinylsilane 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	-	EC50(48hr) 168.7mg/l (Daphnia magna)		
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus)	-	-	-		

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	OECD 203				
N-(3-(trimethoxysilyl)pr	-	LC50 (96H)	-	EC50 (48h)	
opyl)ethylenediamine		=597 mg/L		=81mg/L	
1760-24-3		(Danio		Daphnia magna	
		rerio)Semi-static		Static	
Bis(2,2,6,6-tetramethyl-	EC50 72Hr	LC50 (96h) =	-	LC50 48Hr 8.58	
4-piperidyl) sebacate	0.705 mg/l	5.29 mg/l		mg/l (Daphnia	
52829-07-9	(Pseudokirchner	(Oryzias latipes)		magna)	
	ella subcapitata)				
Dioctyltin oxide	EC50 (3hr)	LC50 (96hr)	-	EC50 (48Hr)	
870-08-6	>1.000 mg/l	>0,09 mg/l		>0,21 mg/l	
	(bacteria)	(Brachydanio		(Daphnia magna	
	(Activated	rerio (zebra))		(Dappnia	
	Sludge,	(Acute Toxicity		magna))	
	Respiration	Test)		(Daphnia sp.	
	Inhibition Test)			Acute	
				Immobilisation	
				Test)	

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric	-		biodegradable
Respirometry Test (TG 301 F)			

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Method	Exposure time	Value	Results
OECD Test No. 303: Simulation Test	28 days	Total organic carbon (TOC)	24 % Moderate
<ul> <li>Aerobic Sewage Treatment A:</li> </ul>			
Activated Sludge Units; B: Biofilms			

Dioctyltin oxide (870-08-6)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	755 hours	biodegradation	Not readily biodegradable 2
Biodegradability: Manometric			%
Respirometry Test (TG 301 F)			

### 12.3. Bioaccumulative potential

### Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient
Trimethoxyvinylsilane	1.1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35
Dioctyltin oxide	6

### 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment

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Trimethoxyvinylsilane	The substance is not PBT / vPvB	
Titanium dioxide	The substance is not PBT / vPvB PBT assessment doe	
	not apply	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	The substance is not PBT / vPvB	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	The substance is not PBT / vPvB	
Dioctyltin oxide	The substance is not PBT / vPvB	

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

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No information available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of contents/container in accordance with local, regional, national, and

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international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1 UN number	or ID number	Not regulated
14.2 Proper Ship	pping Name	Not regulated
14.3 Transport h	azard class(es)	Not regulated
14.4 Packing gro	oup	Not regulated
14.5 Environmen	ntal hazards	Not applicable
14.6 Special Pro	visions	None

### **IMDG**

14.1	UN number or ID number	Not regulated
14.2	Proper Shipping Name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Marine pollutant	NP

14.5 Marine pollutant NP
14.6 Special Provisions None

**14.7 Maritime transport in bulk** Not applicable according to IMO instruments

#### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

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### Section 15: REGULATORY INFORMATION

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

**European Union** 

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

#### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Dioctyltin oxide	870-08-6	20.

#### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

#### **Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

	Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
ľ	Dioctyltin oxide	1.1

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### **Persistent Organic Pollutants**

Not applicable

#### National regulations

#### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

#### **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H317 - May cause an allergic skin reaction

H318 - Causes serious eve damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H361f - Suspected of damaging fertility

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H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

#### Notes assigned to an entry

**Note V:** If the substance is to be placed on the market as fibres (with diameter < 3  $\mu$ m, length > 5  $\mu$ m and aspect ratio  $\geq$  3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied

**Note W:** It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung

#### Notes relating to the classification and labelling of mixtures

**Note 10:** The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 μm

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

#### Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

AGW Occupational exposure limit value BGW Biological limit value Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	On basis of test data
mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

# Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

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International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

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NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By Product Safety & Regulatory Affairs

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Revision note SDS sections updated:

Training Advice No information available

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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