

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 07-Sep-2022 Revision date 19-Aug-2024 Revision Number 1.03

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

1.1. Product identifier

Product Name RITO WATERSTOP LIQUID

Other means of identification

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 Industriestrasse 3 – 11 33829 Borgholzhausen, Germany Tel: +49 (0) 5425 / 801 0

Fax: +49 (0) 5425 / 801 140

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

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 Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

EUH210 - Safety data sheet available on request

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

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

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

P102 - Keep out of reach of children

2.3. Other hazards

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

PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

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	Specific concentration limit	M-Factor	M-Factor (long-ter	REACH registration
			Regulation (EC) No. 1272/2008 [CLP]	(SCL)		m)	number
Trimethoxyvinylsilane 1 - <2.5 %	220-449-8 (014-049-00- 0)	2768-02-7	Acute Tox. 4 (H332) Skin Sens. 1B (H317) Flam. Liq. 3 (H226)	-	-	-	01-2119513215- 52-XXXX
Titanium dioxide 0.1- <1 %	236-675-5 (022-006-00- 2)	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
Quartz (fine fraction) 0.1 - <0.5 %	238-878-4	14808-60-7	STOT RE 1 (H372)	-	-	-	[5]
Bis(2,2,6,6-tetramethyl-4 -piperidyl) sebacate 0.1 - <0.3 %	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 - <0.3 %	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)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Methyl alcohol 67-56-1	200-659-6 (603-001-00-X)	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-2119433307- 44-XXXX

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	(H225)		

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

NOTE [5] - This substance is exempted from registration according to the provisions of Article 2(7)(a) and Annex V of REACH

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

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Trimethoxyvinylsilane	220-449-8 (014-049-00-0)	2768-02-7	-	-	•	11	-
Titanium dioxide	236-675-5 (022-006-00-2)	13463-67-7	-	-	-	-	-
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine	217-164-6	1760-24-3	-	-	1.5	-	-
Quartz (fine fraction)	238-878-4	14808-60-7	-	-	-	-	-
Bis(2,2,6,6-tetramethyl- 4-piperidyl) sebacate	258-207-9	52829-07-9	-	-	-	-	-
Dioctyltin oxide	212-791-1	870-08-6	1	-	•	-	-

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

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. Consult an

ophthalmologist.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Ingestion Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by

mouth to an unconscious person. Call a doctor or poison control centre immediately.

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Small amounts of toxic methanol are released by hydrolysis.

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

Symptoms None known.

Effects of Exposure No information available.

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

Note to doctors Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

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

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

5.3. Advice for firefighters

Special protective equipment an 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

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

in eyes, on skin, or on clothing.

6.2. Environmental precautions

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

12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

place into a container for later disposal.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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

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7.1. Precautions for safe handling

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

eyes or clothing.

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

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 LimitsSmall 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 ³	TWA: 10 mg/m ³
1317-65-3		TWA: 4 mg/m ³	TWA: 4 mg/m ³
		STEL: 30 mg/m ³	STEL: 30 mg/m ³
		STEL: 12 mg/m ³	STEL: 12 mg/m ³
Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 260 mg/m ³	TWA: 260 mg/m ³	TWA: 266 mg/m ³
	*	STEL: 600 ppm	STEL: 250 ppm
		STEL: 780 mg/m ³	STEL: 333 mg/m ³
		Sk*	Sk*
Titanium dioxide	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³
13463-67-7		TWA: 4 mg/m ³	TWA: 4 mg/m ³
		STEL: 30 mg/m ³	STEL: 30 mg/m ³
		STEL: 12 mg/m ³	STEL: 12 mg/m ³
Quartz (fine fraction)	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³
14808-60-7	_	STEL: 0.3 mg/m ³	STEL: 0.3 mg/m ³
Dioctyltin oxide	-	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³
870-08-6		STEL: 0.2 mg/m ³	STEL: 0.2 mg/m ³
]	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			

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Long term

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Superiodade date 07 3 0p 20			Noviolon Number
worker Systemic health effects Long term	Dermal	3,9 mg/kg bw/d	
Titonium diavida (42402.07.	7)		
Titanium dioxide (13463-67-7		Darius d No. Effect Lavel	Catatritaataa
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	10 mg/m³	
N-(3-(trimethoxysilyl)propyl)	ethylenediamine (1760-24-3)	
Туре	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 worker	Dermal	5 mg/kg bw/d	
Short term Systemic health effects worker	Dermal	5 mg/kg bw/d	
Bis(2,2,6,6-tetramethyl-4-pip	eridyl) sebacate (52829-07	-9)	
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Long term Systemic health effects	Inhalation	2.82 mg/m³	
worker Long term Systemic health effects	Dermal	1.6 mg/kg	
Discontinuities avaida (070 00 C)			
Dioctyltin oxide (870-08-6) Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	0.05 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	0.004 mg/m³	
Derived No Effect Level (DN Trimethoxyvinylsilane (2768			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Systemic health effects Long term	Inhalation	18,9 mg/m³	
Consumer Systemic health effects Long term	Dermal	7,8 mg/kg bw/d	
Consumer Systemic health effects Long term	Oral	0,3 mg/kg bw/d	

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Titanium dioxide (13463-67-7)					
Туре	I	Derived No Effect Level (DNEL)	Safety factor		
Consumer		700 mg/kg bw/d			
Long term					
Systemic health effects					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Long term Systemic health effects Consumer	Oral	2.5 mg/kg bw/d			
Long term Systemic health effects Consumer	Inhalation	8.7 mg/m ³			
Long term Systemic health effects Consumer	Dermal	mg/kg bw/d			

Quartz (fine fraction) (14808-60-7)					
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer Long term Systemic health effects	Dermal	0.8 mg/kg			
Consumer Long term Systemic health effects	Oral	0.4 mg/kg			

Dioctyltin oxide (870-08-6)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer	Oral	0.0005 mg/kg bw/d			
Long term					
Systemic health effects					
Consumer	Dermal	0.025 mg/kg bw/d			
Long term					
Systemic health effects					
Consumer	Inhalation	0.0009 mg/m ³			
Long term		_			
Systemic health effects					

Predicted No Effect Concentration (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

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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		

Quartz (fine fraction) (14808-60-7)	
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

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 > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

gloves. Gloves must conform to standard EN 374

Skin and body protection Respiratory protection

Wear suitable protective clothing.

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

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 stateLiquidAppearancePasteColourGrey

Odour Slight. Characteristic.

Property Values Remarks • Method

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

range

Flammability No data available

Flammability Limit in Air None known

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Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

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

Autoignition temperature

Decomposition temperature None known

pН

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

Kinematic viscosity No data available

Dynamic viscosity approx 10 - 20 Pa.s Spindle 3 @ 100 rpm @ 23 °C

Reacts with water. Water solubility Solubility(ies) No data available **Partition coefficient** No data available Vapour pressure No data available Relative density 1.4 - 1.6 **Bulk density** No data available ca. 1.5 g/cm³ Density No data available

Relative vapour density

Particle characteristics

No information available **Particle Size Particle Size Distribution** No information available

9.2. Other information

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

Stable under normal conditions. Stability

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 Protect from moisture. Exposure to air or moisture over prolonged periods. Product cures

with moisture.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

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10.6. Hazardous decomposition products

Hazardous decomposition

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

products

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.

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

Symptoms related to the physical, chemical and toxicological characteristics

No information available. **Symptoms**

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral) >2000 mg/kg >2000 mg/kg ATEmix (dermal) >20000 ppm ATEmix (inhalation-gas) ATEmix (inhalation-dust/mist) >5 mg/l ATEmix (inhalation-vapour) >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3540 mg/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)
	(Rattus) OECD 401	cuniculus)	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	LD50 = 2295 mg/kg (Rattus)	LD50 > 2000 mg/kg	1.49 - 2.44 mg/L (Rat) 4 h
ylenediamine	EPA OPPTS 870.1100	(Oryctolagus cuniculus)	
		EPA OPPTS 870.1200	
Quartz (fine fraction)	>2000 mg/kg (Rattus)	-	-
Bis(2,2,6,6-tetramethyl-4-piperi	LD50 (Rattus)> 2000 mg/kg	LD50 (Rattus) > 3 170 mg/kg	=500 mg/m ³ (Rattus) 4 h
dyl) sebacate	OECD 423	OECD 402	-
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)

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Method	Species	Exposure route	Effective dose	Exposure	time	Results
	Rabbit	Dermal	0.5 mL	24 hours		Non-irritant
itanium dioxide (13463						
Method	Species	Exposure route	Effective dose	Exposure	time	Results
DECD Test No. 404:	Rabbit	Dermal				Non-irritant
Acute Dermal						
rritation/Corrosion						
D	1000 00 7\					
Quartz (fine fraction) (14 Bis(2,2,6,6-tetramethyl-4		chapeta (F2920.07.0)				
· , , , ,			Effective days	F	1:	D 14 -
Method	Species	Exposure route	Effective dose	Exposure	time	Results
DECD Test No. 404:	Rabbit	Dermal				Non-irritant
Acute Dermal rritation/Corrosion						
erious eve damade/ev	e irritation	Based on available data, th	ne classification crite	ria are not m	<u>e</u> t	
berious eye damage/e	e iiiilalioii	based on available data, ti	ie ciassification crite	are not m	Ci.	
rimethoxyvinylsilane (2	768-02-7)					
Method	Species	Exposure route	Effective dose	Exposure	time	Results
DECD Test No. 405:	Rabbit	eye		24 hours		Non-irritant
Acute Eye	rabbit	الراق		21110010		Titori iiiitarit
rritation/Corrosion						
			L			
Fitanium dioxide (13463	-67-7)					
Method	Species	Exposure route	Effective dose	Exposure	time	Results
DECD Test No. 405:	Rabbit	Eye		•		Non-irritant
Acute Eye		'				
rritation/Corrosion						
	l	· · · · · · · · · · · · · · · · · · ·	l			
3is(2,2,6,6-tetramethyl-4	I-piperidyl) s	ebacate (52829-07-9)				
Method	Species	Exposure route	Effective dose	Exposure	time	Results
DECD Test No. 405:	Rabbit	eye				Eye Damage
Acute Eye		ľ				
rritation/Corrosion						
		NII (C) (C)			-1-4	EOD T: N : 100
Respiratory or skin ser	nsitisation	No classification is propose				
		Skin Sensitisation. No sens	siusation responses	were observe	u. May (cause sensitisation
		susceptible persons.				
Product Information						
Method		Species	Exposure route			Results
OECD Test No. 406: Skin		Guinea pig			No sens	sitisation response
Sensitisation						ere observed
				•		
Serm cell mutagenicity	/	Based on available data, th	ne classification crite	eria are not m	et.	
Component Information						
Frimothova vipulailana (2)	700 00 7\					

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

Trimethoxyvinylsilane (2768-02-7)

OECD Test No. 471: Bacterial Reverse

Method

Mutation Test

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

Species

in vitro

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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Results

Not mutagenic

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Chemical name	European Union
Titanium dioxide	Carc. 2

Reproductive toxicity

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

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	Not Classifiable
Toxicity Study with the		
Reproduction/Developmental Toxicity Screening		
Test		

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

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)

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					

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

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

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12.1. Toxicity

Ecotoxicity

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

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

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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 above the

threshold of declaration.

Chemical name	PBT and vPvB assessment
Trimethoxyvinylsilane	The substance is not PBT / vPvB
Titanium dioxide	The substance is not PBT / vPvB
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

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

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 UN proper shipping name

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated

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14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 Not regulated
 Not regulated
 Not regulated

14.5 Marine pollutant NP
 14.6 Special precautions for user Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated
 Not regulated
 Not regulated
 Not regulated
 Not applicable

14.6 Special precautions for user

Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorisation, 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	Use restricted. See entry 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 does not contain 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 above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

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

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the

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marketing and use of explosives precursors

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. 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

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Notes relating to the identification, classification and labelling of substances

Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 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) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

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 Maximum limit value Sk* Skin designation Ceiling

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

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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)

Environmental Protection Agency

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

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

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: 1 3 15

Training Advice No information available

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Disclaimer

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End of Safety Data Sheet

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