

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

RITO WATERSTOP PASTE Supercedes Date: 24-Jun-2021

Revision date 28-Mar-2022 Revision Number 1.01

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

1.1. Product identifier							
Product Name	RITO WATERSTOP PASTE						
Other means of identification							
Pure substance/mixture	Mixture						
1.2. Relevant identified uses of the substance or mixture and uses advised against							
Recommended use	Sealant						
Uses advised against	None known						
1.3. Details of the supplier of the s	afety 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							
E-mail address	SDS.box-EU@bostik.com						
1.4. Emergency telephone number							
Ireland United Kingdom Europe	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) Bostik: +44 (1785) 272650 112						
SECTION 2: Hazards identif	ication						
2.1. Classification of the substanc	e 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]

Signal word None

Hazard statements

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

EU Specific Hazard Statements

EUH208 - Contains Trimethoxyvinylsilane & Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine & N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction EUH210 - Safety data sheet available on request

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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
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 1 - <2.5 %	309-629-8	100545-48-0	Skin Sens. 1B (H317)	Skin Sens. 1 :: C>=25%	-	-	01-2119979085- 27-XXXX
Trimethoxyvinylsilane 0.1- <1 %	(014-049-00- 0) 220-449-8	2768-02-7	Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226)	-	-	-	01-2119513215- 52-XXXX
N-(3-(trimethoxysilyl)pro pyl)ethylenediamine 0.1 - <0.5 %	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 - <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

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)	REACH registration number
Methyl alcohol 67-56-1	(603-001-00 -X) 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

Acute Toxicity Estimate No information available

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						-	
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
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	309-629-8	100545-48-0	-	-	-	-	-
Trimethoxyvinylsilane	(014-049-00-0) 220-449-8	2768-02-7	-	-	-	11	-
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	-	-	-	-	-

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

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.			
Skin contact	Wash 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 immediately. 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	d effects, both acute and delayed			
Symptoms	None known.			
4.3. Indication of any immediate m	nedical 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.

Unsuitable extinguishing media Full water jet.

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5.2. Special hazards arising from t	he substance or mixture
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous combustion products	Carbon oxides. Carbon dioxide (CO2).
5.3. Advice for firefighters	
Special protective equipment and precautions for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
SECTION 6: Accidental rele	ase measures
6.1. Personal precautions, protect	ive 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.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent product from entering drains. Do not allow to enter into soil/subsoil.
3.3. Methods and material for cont	ainment and cleaning up
Methods for containment	Use a non-combustible material like vermiculite, sand or earth to soak up the product an 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.
3.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handling	_
Advice on safe handling	Ensure adequate ventilation. Use personal protection equipment. Avoid contact with skir eyes or clothing.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and afte work.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage Conditions	Protect from moisture. Keep container tightly closed in a dry and 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)	

7.3. Specific end use(s)

Specific use(s) Coatings.

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

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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

Chemical name	European Union	Ireland	United Kingdom
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
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)					
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker	Inhalation	3.35 mg/m³			
Long term Local health effects					

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			

N-(3-(trimethoxysilyl)propyl)ethy	lenediamine (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-piperidyl) sebacate (52829-07-9)						
Туре		Derived No Effect Level (DNEL)	Safety factor			
worker	Inhalation	2.82 mg/m ³				

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Short term			
Long term			
Systemic health effects			
worker	Dermal	1.6 mg/kg	
Long term			
Systemic health effects			

Derived No Effect Level (DNEL)			
Octadecanoic acid, 12-hydroxy-, r	eaction products with ethyle	nediamine (100545-48-0)	
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term	Inhalation	0.83 mg/m³	

Trimethoxyvinylsilane (2768-	-02-7)		
Туре	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	

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/m³	
Long term Systemic health effects Consumer	Dermal	mg/kg bw/d	

Bis(2,2,6,6-tetramethyl-4-piperid	/l) 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	

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

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licroorganisms in sewage treatment	110 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
Manina and income	0.005 mg/kg
Marine sediment	
Soil	
	0.0075 mg/kg 25 mg/l
Soil	0.0075 mg/kg
Soil Sewage treatment plant	0.0075 mg/kg
Soil Sewage treatment plant	0.0075 mg/kg 25 mg/l
Soil Sewage treatment plant Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (0.0075 mg/kg 25 mg/l (52829-07-9)
Soil Sewage treatment plant Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (Environmental compartment	0.0075 mg/kg 25 mg/l (52829-07-9) Predicted No Effect Concentration (PNEC)
Soil Sewage treatment plant Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (Environmental compartment Freshwater	0.0075 mg/kg 25 mg/l (52829-07-9) Predicted No Effect Concentration (PNEC) 0.018 mg/l
Soil Sewage treatment plant Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (Environmental compartment Freshwater Marine water	0.0075 mg/kg 25 mg/l (52829-07-9) Predicted No Effect Concentration (PNEC) 0.018 mg/l 0.0018 mg/l

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	Wear suitable protective clothing.
Respiratory protection	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 state	Solid	
Appearance	Paste	
Colour	Grey	
Odour	Characteristic.	
Odour threshold	No information available	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	
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		
Flash point	> 61 °C	CC (closed cup)
Autoignition temperature	No data available	
Decomposition temperature		
рН	No data available	

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pH (as aqueous solution) Kinematic viscosity Dynamic viscosity Water solubility Solubility(ies) Partition coefficient Vapour pressure Relative density Bulk Density Density Relative vapour density Particle characteristics Particle Size Particle Size Particle Size Distribution	No data available No data available 11000 - 15000 Pa.s Reacts with water. No data available No data available < 1100 hPa @ 1.45 - 1.55 No data available ca. 1.48 g/cm ³ g/cm ³ No data available No information available No information available	0 50 °C
9.2. Other information		
Solid content (%) VOC content	No information available No data available	
9.2.1. Information with regards to Not applicable	physical hazard classes	
9.2.2. Other safety characteristics No information available		
SECTION 10: Stability and r	eactivity	
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 Protect from moisture. Product cures with moisture.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

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

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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		

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (inhalation-dust/mist) 279.90 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Octadecanoic acid,	LD50 >2000 mg/kg (Rattus)	-	LC50 > 5.05 mg/kg (Rattus)
12-hydroxy-, reaction products			
with ethylenediamine			
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3540 mg/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)
	(Rattus) OECD 401	cuniculus)	OECD TG 403
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	
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	

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.

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 431: In	EPISKIN™	in vitro	0.02 g	4 hours	Non-irritant
Vitro Skin Corrosion:					
Human Skin Model Test					

Trimethoxyvinylsilane (2768-02-7)

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

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					

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

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	еуе	0.1 mL	72 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

Trimethoxyvinylsilane (2768-02-7)

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

Respiratory or skin sensitisation May produce an allergic reaction.

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	Sensitizing > 25 %
Sensitisation	-		-

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Results		
OECD Test No. 406: Skin	Guinea pig	Dermal	sensitising		
Sensitisation, Buehler test			_		

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

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig		No sensitisation responses
Sensitisation			were observed

Germ cell mutagenicity

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

Component Information

Inmethoxyvinyisilane (2768-02-7)				
Method	Species	Results		
OECD Test No. 471: Bacterial Reverse	in vitro	Not mutagenic		
Mutation Test				

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

Carcinogenicity

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

Reproductive toxicity

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

Octadecanoic acid, 12-hy	droxy-, reaction pr	roducts with ethy	lenediamine ((100545-48-0)

Method	Species	Results

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OECD Test No. 421: Reproduction/Developmental Toxicity Screening Test	Rat	Not Classifiable	
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			

Bis(2.2.6.6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

Dio(2,2,0,0 totramotry) i pipenayi jobabata (
Method	Species	Results
OECD Test No. 414: Pre-natal Development	Rat, Rabbit	reproductive toxicant
Toxicity Study		

STOT - single exposure

Test

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

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) 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	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
Octadecanoic acid,	EL50 (72h) >100	LL50 (96h)	-	EL50 (48h)		
12-hydroxy-, reaction	mg/L Algae	>10mg/L		>10mg/L		
products with	(Pseudokirchner	(Onchohynchus		Daphnia		
ethylenediamine	iella subcapitata)	mykiss)		(Daphnia		
100545-48-0				magna)		
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					
N-(3-(trimethoxysilyl)pr	-	LC50 (96H)	-	EC50 (48h)		

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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/I (Daphnia	
52829-07-9	(Pseudokirchner	(Oryzias latipes)		magna)	
	ella subcapitata)				

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			

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	5.86
Trimethoxyvinylsilane	1.1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35

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
Octadecanoic acid, 12-hydroxy-, reaction products with	The substance is not PBT / vPvB
ethylenediamine	
Trimethoxyvinylsilane	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

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

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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 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special Provisions 	Not regulated Not regulated Not regulated Not regulated Not applicable None
IMDG 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant 14.6 Special Provisions 14.7 Maritime transport in bulk according to IMO instruments	Not regulated Not regulated Not regulated Not regulated NP None Not applicable
Air transport (ICAO-TI / IATA-DGR) 14.1 UN number or ID number 14.2 Proper Shipping Name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable None

Section 15: REGULATORY INFORMATION

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

European Union

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

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)

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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)

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 eye damage
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H361f Suspected of damaging fertility
- 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 < $3 \mu m$, length > $5 \mu m$ 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

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

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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

Lagand SECTION 9: Expection controls/parsonal protection

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	Calculation method		
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)) 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 date	28-Mar-2022	
Revision note	SDS sections updated: 3 9 11 15 16	
Training Advice	No information available	
Further information	No information available	

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

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.

RITO WATERSTOP PASTE Supercedes Date: 24-Jun-2021 Revision date 28-Mar-2022 Revision Number 1.01

End of Safety Data Sheet