SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

EVO-STIK STOPS MOULD DEAD SEALANT CLEAR
Supercedes date 19-Oct-2022

Revision date 10-Oct-2024
Revision Number 3.01

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

1.1. Product identifier

Product Name EVO-STIK STOPS MOULD DEAD SEALANT CLEAR

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 safety data sheet

Company Name
Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

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

1.4. Emergency telephone number

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)
NHS: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Signal word
None

Hazard statements
H412 - Harmful to aquatic life with long lasting effects.

EU Specific Hazard Statements
EUH208 - Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] & Dimethylbis[(1-oxoneodecyl)oxy]stannane. May produce an allergic reaction

Precautionary Statements - EU (§28, 1272/2008)
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Small amounts of acetic acid (CAS 64-19-7) are formed by hydrolysis and released upon curing. Harmful to aquatic life.

PBT & vPvB
This mixture contains substances considered to be persistent, bio-accumulating and toxic (PBT). This mixture contains substances considered to be very persistent and 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-term)	REACH registration number
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics >25 - <40 %	934-956-3	RR-100252-4	Asp. Tox. 1 (H304)	-	-	-	01-2119827000-58-XXXX
Silica, amorphous 5 - <10 %	231-545-4	7631-86-9	[B]	-	-	-	01-2119379499-16-XXXX
Triacetoxy(propyl)silane 1 - <2.5 %	241-816-9	17865-07-5	Skin Corr. 1B (H314) (EUH071)	-	-	-	01-2119966899-07-XXXX
Silanetriol, methyl-, triacetate 1 - <2.5 %	224-221-9	4253-34-3	Skin Corr. 1C (H314) Acute Tox. 4 (H302) (EUH014)	-	-	-	01-2119962266-32-XXXX
Titanium dioxide 0.1- <1 %	236-675-5 (022-006-00-2)	13463-67-7	[C]	-	-	-	01-2119489379-17-XXXX
Polyether polyol 0.1 - <0.5 %	611-024-1	53637-25-5	Acute Tox. 4 (H302)	-	-	-	[7]
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics 0.1 - <0.5 %	932-078-5	RR-100254-6	Asp. Tox. 1 (H304)	-	-	-	01-2119552497-29-xxxx
Benzene, C10-13-alkyl derivatives 0.1 - <0.3 %	267-051-0	67774-74-7	Asp. Tox. 1 (H304) (EUH066)	-	-	-	01-2119489372-31-XXXX
Octamethylcyclotetrasiloxane [D4] 0.036 - < 0.05 %	209-136-7 (014-018-00-1)	556-67-2	Repr. 2 (H361f) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226) [G]	-	-	10	01-2119529238-36-XXXX
Dodecamethylcyclohexasiloxane [D6] 0.036 - < 0.05 %	208-762-8	540-97-6	PBT vPvB	-	-	-	01-2119517435-42-XXXX
Decamethylcyclopentasiloxane [D5] 0.036 - < 0.05 %	208-764-9	541-02-6	PBT vPvB	-	-	-	01-2119511367-43-XXXX
Acetic anhydride 0.036 - < 0.05 %	203-564-8 (607-008-00-9)	108-24-7	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Corr. 1B (H314) Flam. Liq. 3 (H226)	Eye Dam. 1 :: 5%<=C<25% Eye Irrit. 2 :: 1%<=C<5% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 5%<=C<25%	-	-	01-2119486470-36-xxxx

				STOT SE 3 :: C>=5%			
Acetic acid 0.036 - < 0.05 %	200-580-7 (607-002-00-6)	64-19-7	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1A :: C>=90% Skin Corr. 1B :: 25%<=C<90% Skin Irrit. 2 :: 10%<=C<25%	-	-	01-2119475328-30-XXXX
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] 0.01 < 0.036 %	264-843-8 (613-335-00-8)	64359-81-5	Acute Tox. 4 (H302) Acute Tox. 2 (H330) Skin Corr. 1 (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	Skin Irrit. 2 :: 0.025%<=C<5% Eye Irrit. 2 :: 0.025%<=C<3% Skin Sens. 1A :: C>=0.0015%	100	100	-
Dimethylbis[(1-oxoneodecyl)oxy]stannane 0.01 < 0.036 %	273-028-6	68928-76-7	Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)	-	-	-	01-2120770324-57-xxxx

Substances identified by a number starting “RR-“ in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

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
Acetic acid 64-19-7	200-580-7 (607-002-00-6)	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1A :: C>=90% Skin Corr. 1B :: 25%<=C<90% Skin Irrit. 2 :: 10%<=C<25%	-	-	01-2119475328-30-XXXX

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

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes
[B] - Substance with a Community workplace exposure limit
[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring
[G] - PBT / vPvB substance

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
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	934-956-3	RR-100252-4	-	-	-	-	-
Silica, amorphous	231-545-4	7631-86-9	-	-	-	-	-

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
Triacetoxy(propyl)silane	241-816-9	17865-07-5	-	-	-	-	-
Silanetriol, methyl-, triacetate	224-221-9	4253-34-3	1600	-	-	-	-
Titanium dioxide	236-675-5 (022-006-00-2)	13463-67-7	-	-	-	-	-
Polyether polyol	611-024-1	53637-25-5	501	-	-	-	-
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	932-078-5	RR-100254-6	-	-	-	-	-
Benzene, C10-13-alkyl derivatives	267-051-0	67774-74-7	-	-	-	-	-
Octamethylcyclotetrasiloxane [D4]	209-136-7 (014-018-00-1)	556-67-2	-	-	-	-	-
Dodecamethylcyclohexasiloxane [D6]	208-762-8	540-97-6	-	-	-	-	-
Decamethylcyclopentasiloxane [D5]	208-764-9	541-02-6	-	-	-	-	-
Acetic anhydride	203-564-8 (607-008-00-9)	108-24-7	1780	-	-	-	-
Acetic acid	200-580-7 (607-002-00-6)	64-19-7	-	1060	-	-	-
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	264-843-8 (613-335-00-8)	64359-81-5	567 +	-	0.16 +	0.16 +	0.16 +
Dimethylbis[(1-oxoneodecyl)oxy]stannane	273-028-6	68928-76-7	892	-	-	-	-

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
Acetic acid - 64-19-7	B

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. 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 Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist.

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

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with

water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

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 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 dioxide (CO2). Silicon dioxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.

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 release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Ensure adequate ventilation.

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. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

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

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Protect from moisture.

Recommended storage temperature Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)
Sealant.

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 acetic acid (CAS 64-19-7) are formed by hydrolysis and released upon curing This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product 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	United Kingdom
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics RR-100252-4	TWA/8h 5mg/m³ STEL/15 mins 10mg/m³	-
Silica, amorphous 7631-86-9	-	TWA: 6 mg/m³ TWA: 2.4 mg/m³ STEL: 18 mg/m³ STEL: 7.2 mg/m³
Acetic acid 64-19-7	TWA: 25 mg/m³ TWA: 10 ppm STEL: 50 mg/m³ STEL: 20 ppm	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7	-	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Sk*

Derived No Effect Level (DNEL) No information available

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

Octamethylcyclotetrasiloxane [D4] (556-67-2)			
Type	Exposure route	Derived No Effect Level	Safety factor

		(DNEL)	
worker Long term Systemic health effects	Inhalation	73 mg/m³	

Dodecamethylcyclohexasiloxane [D6] (540-97-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	11 mg/m³	
worker Long term Local health effects	Inhalation	1.22 mg/m³	
worker Short term Local health effects	Inhalation	6.1 mg/m³	

Decamethylcyclopentasiloxane [D5] (541-02-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Inhalation	9.7 mg/m³	
worker Short term Local health effects	Inhalation	24.2 mg/m³	
worker Long term Systemic health effects	Inhalation	97.3 mg/m³	
worker Long term Local health effects	Inhalation	24.2 mg/m³	

Acetic anhydride (108-24-7)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	4.2 mg/m³	
worker Long term Local health effects	Inhalation	4.2 mg/m³	

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

Octamethylcyclotetrasiloxane [D4] (556-67-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	13 mg/m³	
Consumer	Oral	3.7 mg/kg bw/d	

Long term Systemic health effects			

Dodecamethylcyclohexasiloxane [D6] (540-97-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2.7 mg/m³	
Consumer Long term Local health effects	Inhalation	0.3 mg/m³	
Consumer Short term Local health effects	Inhalation	1.5 mg/m³	
Consumer Long term Systemic health effects	Oral	1.7 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	1.7 mg/kg bw/d	

Decamethylcyclopentasiloxane [D5] (541-02-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Short term Systemic health effects	Inhalation	17.3 mg/m³	
Consumer Short term Systemic health effects	Oral	5 mg/kg bw/d	
Consumer Short term Local health effects	Inhalation	4.3 mg/m³	
Consumer Long term Systemic health effects	Inhalation	17.3 mg/m³	
Consumer Long term Systemic health effects	Oral	5 mg/kg bw/d	
Consumer Long term Local health effects	Inhalation	4.3 mg/m³	

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
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

Octamethylcyclotetrasiloxane [D4] (556-67-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)

Freshwater	0.0015 mg/l
Marine water	0.00015 mg/l
Freshwater sediment	3 mg/kg
Marine sediment	0.3 mg/kg
Soil	0.54 mg/kg
Sewage treatment plant	10 mg/l

Dodecamethylcyclohexasiloxane [D6] (540-97-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Sewage treatment plant	>1 mg/l
Freshwater sediment	13 mg/kg dry weight
Marine sediment	1.3 mg/kg dry weight
Soil	3.77 mg/kg dry weight
Sewage treatment plant	>10 mg/l

Decamethylcyclopentasiloxane [D5] (541-02-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	>0.0012 mg/l
Marine water	>0.00012 mg/l
Freshwater sediment	2.4 mg/kg
Freshwater sediment	2.4 mg/kg
Soil	1.1 mg/kg
Sewage treatment plant	>10 mg/l

Acetic anhydride (108-24-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	3.058 mg/l
Marine water	0.306 mg/l
Sewage treatment plant	115 mg/l
Freshwater sediment	11.36 mg/kg dry weight
Marine water	1.136 mg/kg dry weight
Soil	0.47 mg/kg dry weight

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 None under normal use conditions.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation, especially in confined areas.

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 Clear
Odour Acetic acid.

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 100 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	.	Not applicable. Insoluble in water.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	> 21 mm²/s	
Dynamic viscosity	No data available	
Water solubility	No data available. Product cures with moisture	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	0.97	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
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

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
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. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

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. May cause sensitisation in susceptible persons.

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 (oral) 152,813.80 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) >5 mg/l
ATEmix (inhalation-vapour) >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Siloxanes and silicones, dimethyl, hydroxy-terminated	>15400 mg/kg (Rattus)	> 16 mL/kg (Oryctolagus cuniculus)	>8750 mg/m³ (Rattus) 7 h
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	LD50 > 5000 mg/kg (Rattus) OECD 401	LD50 > 3160 mg/kg (Oryctolagus cuniculus) OECD 402	LC50 Inhalation(4h) >5266 mg/m³ (Rattus)
Silica, amorphous	=7900 mg/kg (Rattus)	> 5000 mg/kg (Oryctolagus cuniculus)	>2.2 mg/L (Rattus) 1 h
Silanetriol, methyl-, triacetate	LD50 = 1600 mg/kg (Rattus) OECD 401	-	-
Titanium dioxide	>10000 mg/kg (Rattus)	LD50 > 5000 mg/Kg	= 5.09 mg/L (Rattus) 4 h

Polyether polyol	LD50 >500 - <2000 mg/Kg (Rattus)	>3000 mg/Kg (Oryctolagus cuniculus) (OECD 402)	-
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	LD50 > 5000 mg/kg (Rattus) OECD 401	LD50 > 2000 mg/kg (Oryctolagus cuniculus) OECD 402	-
Benzene, C10-13-alkyl derivatives	>5000 mg/kg (Rattus)	> 10200 mg/kg (Oryctolagus cuniculus)	-
Octamethylcyclotetrasiloxane [D4]	LD50 > 4800 mg/kg (Rattus) OECD 401	LD50 > 2400 mg/kg (Rattus) OECD 402	=36 g/m³ (Rattus) 4 h
Dodecamethylcyclohexasiloxane [D6]	>50 g/kg (Rattus)	> 2000 mg/kg (Rat)	-
Decamethylcyclopentasiloxane [D5]	>24134 mg/kg (Rattus)	> 16 mL/kg (Oryctolagus cuniculus)	= 8.67 mg/L (Rat) 4 h
Acetic anhydride	=1780 mg/kg (Rattus)	= 3000 mg/kg (Oryctolagus cuniculus)	=1000 ppm (Rattus) 4 h
Acetic acid	=3310 mg/kg (Rattus)	= 1060 mg/kg (Oryctolagus cuniculus)	=11.4 mg/L (Rattus) 4 h
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	=1636 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus cuniculus)	=0.26 mg/L (Rattus) 4 h
Dimethylbis[(1-oxoneodecyl)oxy]stannane	LD50 =892 mg/Kg (Rattus) (OECD 401)	LD50 >2000 mg/Kg (rattus)	-

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

Skin corrosion/irritation The assessment of the result of testing was done in accordance with the guideline of the Commission 92/ 69/ EEC.

Product Information					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Non-irritant
	Rabbit	Dermal		6 days	Product score <=1 Non-irritant

Titanium dioxide (13463-67-7)					
Method	**Species**	**Exposure route**	**Effective dose**	**Exposure time**	**Results**
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Non-irritant

Serious eye damage/eye irritation By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void). The assessment of the result of testing was done in accordance with the guideline of the Commission 92/ 69/ EEC.

Product Information					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			Non-irritant
	Rabbit	eye		6 days	Product score <=1 Non-irritant

Titanium dioxide (13463-67-7)

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

Respiratory or skin sensitisation No classification is proposed, based on conclusive negative data. OECD Test No. 406: Skin Sensitisation. May cause sensitisation in susceptible persons.

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

Titanium dioxide (13463-67-7)
Octamethylcyclotetrasiloxane [D4] (556-67-2)
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] (64359-81-5)

Method	Species	Exposure route	Results
OECD 406	Guinea pig	Dermal	Sensitising

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

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

Chemical name	European Union
Titanium dioxide	Carc. 2

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

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Octamethylcyclotetrasiloxane [D4]	Repr. 2

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

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 Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	EL50 (72h) >10,000 mg/L (Skeletonema costatum)	LL50 (96h) > 1028 mg/L (Scophthalmus maximus)	-	LL50 (48h)> 3193 mg/l (Acartia tonsa)		

RR-100252-4	ISO 10253	OECD 203				
Silica, amorphous 7631-86-9	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)		
Triacetoxy(propyl)silane 17865-07-5	EC50 (72h): approx. 24 mg/l(Pseudokirchenriella subpicata)	LC50 (96h) = 108.89 mg/L	-	EC50 (48h) = 89.59 mg/L		
Silanetriol, methyl-, triacetate 4253-34-3	EC50 (72h): >500 mg/l (Pseudokirchnerella subcapitata)	LC50 (96h) >500 mg/l (Brachydanio rerio)	-	EC50 (48h) >500 mg/l (Daphnia magna)		
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-	-		
Polyether polyol 53637-25-5	EC0 (72h) >= 100 mg/l (Desmodesmus subspicatus) OECD 201	LC50 (96h) >100 mg/L (Poecilia reticulata) (OECD 203)	-	LC50 (48h) >100 mg/L Daphnia magna (OECD 202)		
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics RR-100254-6	EL50 (72h) > 10 000 mg/L (Skeletonema costatum)	LL50 (96h) > 1028 mg/L (Scophthalmus maximus)	-	LL50 (48h) > > 3193 mg/l (Acartia tonsa)		
Benzene, C10-13-alkyl derivatives 67774-74-7	-	-	-	EC50 (48 h) > 0.041 mg/L (Daphnia magna) EU Method C.2 (Acute Toxicity for Daphnia)		
Octamethylcyclotetrasiloxane [D4] 556-67-2	-	LC50: >1000mg/L (96h, Lepomis macrochirus) LC50: >500mg/L (96h, Brachydanio rerio)	-	EC50: =25.2mg/L (24h, Daphnia magna)		10
Dodecamethylcyclohexasiloxane [D6] 540-97-6	-	90 d NOEC ≥14 µg/L, Oncorhynchus mykiss	-	NOEC ≥4.6 µg/L (21d) OECD 211 Daphnia Magna		
Acetic anhydride 108-24-7	-	LC50: =265mg/L (48h, Leuciscus idus)	-	EC50: =55mg/L (24h, Daphnia magna)		
Acetic acid 64-19-7	-	LC50 96 h >1000 mg/L (Danio rerio)	EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min	EC50 48 h >300 mg/L (Daphnia magna Static)		
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] 64359-81-5	EC50 (72h) =0.025 mg/L Algae (Scenedesmus	LC50 (96h) 0.0078 mg/L (Oncorhynchus mykiss)(OECD	-	EC50 (48h) 0.0097 mg/L Daphnia magna (OECD 202)	100	100

	subspicatus)(OECD 201)	203)				
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7	-	-	-	EC50 =39 mg/L (Daphnia magna) (OECD 201)		

12.2. Persistence and degradability

Persistence and degradability No information available.

Silica, amorphous (7631-86-9)

Method	Exposure time	Value	Results
			The methods for determining biodegradability are not applicable to inorganic substances

Octamethylcyclotetrasiloxane [D4] (556-67-2)
Dodecamethylcyclohexasiloxane [D6] (540-97-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	4.5%	Not readily biodegradable

Decamethylcyclopentasiloxane [D5] (541-02-6)

Method	Exposure time	Value	Results
OECD 310	28 days	0.14%	Not readily biodegradable

4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] (64359-81-5)

Method	Exposure time	Value	Results
OECD Test No. 308: Aerobic and Anaerobic Transformation in Aquatic Sediment Systems		Half-life	1.1-1.3 days

Dimethylbis[(1-oxoneodecyl)oxy]stannane (68928-76-7)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	0%	Not readily biodegradable
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	3%	Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Triacetoxy(propyl)silane	1.23
Silanetriol, methyl-, triacetate	-2.4
Benzene, C10-13-alkyl derivatives	6.4
Octamethylcyclotetrasiloxane [D4]	6.49
Dodecamethylcyclohexasiloxane [D6]	8.87
Decamethylcyclopentasiloxane [D5]	8.02
Acetic anhydride	-0.27
Acetic acid	-0.17
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	4.4

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 contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	The substance is not PBT / vPvB
Silica, amorphous	The substance is not PBT / vPvB
Triacetoxy(propyl)silane	The substance is not PBT / vPvB
Silanetriol, methyl-, triacetate	The substance is not PBT / vPvB
Titanium dioxide	The substance is not PBT / vPvB
Benzene, C10-13-alkyl derivatives	The substance is not PBT / vPvB
Octamethylcyclotetrasiloxane [D4]	PBT & vPvB
Dodecamethylcyclohexasiloxane [D6]	PBT / vPvB substance
Decamethylcyclopentasiloxane [D5]	PBT / vPvB substance
Acetic anhydride	The substance is not PBT / vPvB
Acetic acid	The substance is not PBT / vPvB
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

Component Information		
Octamethylcyclotetrasiloxane [D4] (556-67-2)		
Method	Results	Species
Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).	Negative.	

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 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Note: Keep from freezing.

Land transport (ADR/RID)

14.1 UN number or ID number	Not regulated
14.2 UN 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 precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	NP
14.6 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	Not regulated
14.2 UN 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 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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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, 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)

Chemical name	CAS No.
Acetic anhydride	108-24-7
Acetic acid	64-19-7
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	64359-81-5
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

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)

Biocidal Products Regulation (EU) No 528/2012 (BPR)
This product contains a biocidal product for the preservation of the dry film Contains: 4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]

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.

Dangerous substance category per Seveso Directive (2012/18/EU)
O1 - Substances or mixtures with hazard statement EUH014

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 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. 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
EUH014 - Reacts violently with water
EUH071 - Corrosive to the respiratory tract
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H330 - Fatal if inhaled
H361f - Suspected of damaging fertility
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful 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. This note aims to describe the

particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation

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

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
Sk*	Skin designation
SVHC	Substance(s) of Very High Concern
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
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data

No information available

Prepared By	Product Safety & Regulatory Affairs
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Indication of changes

Revision Note	Not applicable.
Training Advice	No information available
Further information	No information available

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

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