

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

BOSTIK BONDFLEX 100 CLEAR Supercedes Date: 28-Aug-2018

#### Revision date 02-Aug-2019 Revision Number 1.01

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

1.1. Product Identifier

Product Name Pure substance/mixture BOSTIK BONDFLEX 100 CLEAR Mixture

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

Recommended use Uses advised against Sealant. None known

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

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

Supplier 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	+44 (1785) 272650	
Ireland	+353 (1) 8624900	(Monday- Friday 9am-5pm)

### SECTION 2: Hazards identification

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

Regulation (EC) No 1272/2008

Not classified

#### 2.2. Label Elements

Not classified

Signal word None

Hazard statements Not classified

#### **EU Specific Hazard Statements** EUH208 - Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]. May produce an allergic reaction

### **Precautionary statements**

P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children

#### 2.3. Other Hazards

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Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing

### PBT and vPvB assessment

This preparation contains substances considered to be persistent, bio-accumulating and toxic (PBT), or to be very persistent or very bioaccumulating (vPvB)

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### <u>Mixtures</u>

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Triacetoxy(propyl)silane	241-816-9	17865-07-5	1 - <3	Skin Corr. 1B (H314) (EUH071)		01-2119966899- 07-XXXX
Silanetriol, methyl-, triacetate	224-221-9	4253-34-3	1- <2.5	Skin Corr. 1C (H314) Acute Tox. 4 (H302) (EUH014)		01-2119962266- 32-XXXX
Decamethylcyclopentasil oxane	208-764-9	541-02-6	0.1 - <1	PBT vPBT		01-2119511367- 43-XXXX
Octamethylcyclotetrasilo xane	209-136-7	556-67-2	0.1 - <1	Repr. 2 (H361f) Aquatic Chronic 4 (H413) Flam. Liq. 3 (H226) PBT vPBT		01-2119529238- 36-XXXX
Dodecamethylcyclohexa siloxane	208-762-8	540-97-6	0.1 - <1	PBT vPvB		01-2119517435- 42-XXXX
4,5-dichloro-2-octyl-2H-i sothiazol-3-one [DCOIT]	264-843-8	64359-81-5	0.01 - <0.05	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Acute Tox. 4 (H302) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (410)		No data available

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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Chemical name	CAS No.	SVHC candidates
Decamethylcyclopentasiloxane	541-02-6	Х
Octamethylcyclotetrasiloxane	556-67-2	Х
Dodecamethylcyclohexasiloxane	540-97-6	Х

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

General advice	Take a copy of the Safety Data Sheet when going for medical treatment.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	No information available.

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

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	Full water jet. Do not scatter spilled material with high pressure water streams.	
5.2. Special hazards arising from th	ne substance or mixture	
Specific hazards arising from the chemical	Thermal decomposition can lead to release of toxic and corrosive gases/vapours.	
Hazardous combustion products	Carbon monoxide. Carbon oxides.	
5.3. Advice for firefighters		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

## SECTION 6: Accidental release measures

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

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.
Other information	Ventilate the area. Prevent further leakage or spillage if safe to do so.

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For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
6.3. 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 and place into a container for later disposal.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
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 s	torage
7.1. Precautions for safe handling	_
Advice on safe handling	Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash it before reuse.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs.

7.3. S	pecific	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	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

## Derived No Effect Level (DNEL) N

No information available

Derived No Effect Level (DNEL)	
Dodecamethylcyclohexasiloxane (540-97-6)	
Туре	worker Long term Systemic health effects

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Exposure route	Inhalation	
Derived No Effect Level (DNEL)	11 mg/m <sup>3</sup>	
Туре	worker Long term Local health effects	
Exposure route	Inhalation	
Derived No Effect Level (DNEL)	1.22 mg/m <sup>3</sup>	

Derived No Effect Level (DNEL)		
Dodecamethylcyclohexasiloxane	(540-97-6)	
Туре	Consumer Long term Systemic health effects	
Exposure route	Inhalation	
Derived No Effect Level (DNEL)	2.7 mg/m <sup>3</sup>	
Туре	Consumer Long term Local health effects	
Exposure route	Inhalation	
Derived No Effect Level (DNEL)	0.3 mg/m <sup>3</sup>	
Туре	Consumer Short term Local health effects	
Exposure route	Inhalation	
Derived No Effect Level (DNEL)	1.5 mg/m <sup>3</sup>	
Туре	Consumer Long term Systemic health effects	
Exposure route	Oral	
Derived No Effect Level (DNEL)	1.7 mg/kg bw/d	
Туре	Consumer Short term Systemic health effects	
Exposure route	Oral	
Derived No Effect Level (DNEL)	1.7 mg/kg bw/d	

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

Predicted No Effect Concentration (PNEC)			
Dodecamethylcyclohexasiloxane (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		

## 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 protective gloves. Gloves made of plastic or rubber.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Ensure adequate ventilation, especially in confined areas. 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:	Recommended filter type:. Brown; White.

Environmental exposure controls Prevent product from entering drains.

## **SECTION 9: Physical and chemical properties**

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#### 9.1. Information on basic physical and chemical properties

Liquid

**Physical state** Appearance Paste Colour Colourless Odour Acetic acid **Odour threshold** No information available **Property** Values No data available рΗ Melting point / freezing point No data available Boiling point / boiling range 300 °C > 100 °C Flash point **Evaporation rate** No data available Flammability (solid, gas) Not applicable for liquids . Flammability Limit in Air Upper flammability or explosive No data available limits Lower flammability or explosive No data available limits Vapour pressure No data available Vapour density No data available **Relative density** 1.03 - 1.05 Insoluble in water Water solubility Solubility(ies) No data available Partition coefficient No data available > 200 °C Autoignition temperature Decomposition temperature No data available Kinematic viscosity No data available Dynamic viscosity No data available Explosive properties No data available **Oxidising properties** No data available 9.2. Other information Solid content (%) No information available Softening Point No information available Molecular weight No information available

Remarks • Method

## SECTION 10: Stability and reactivity

**VOC Content (%)** 

Density

**Bulk density** 

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion Data Sensitivity to mechanical impact Sensitivity to static discharge	None. None.

< 3 g/L 1.03

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1.05 g/cm<sup>3</sup>

No information available

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

#### 10.4. Conditions to avoid

United Kingdom, Ireland - BE

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Conditions to avoid	None known based on information supplied.		
10.5. Incompatible materials			
Incompatible materials	None known based on information supplied.		
10.6. Hazardous decomposition	n products		
Hazardous decomposition products	None under normal use conditions. Stable under recommended storage conditions.		
SECTION 11: Toxicologic	al information		

## 11.1. Information on toxicological effects

Information on likely routes of exposure

**Product Information** 

 umptome valeted to the physical chemical and toxical spinsle sized shows toxication		
Ingestion	Based on available data, the classification criteria are not met.	
Skin contact	Based on available data, the classification criteria are not met.	
Eye contact	Based on available data, the classification criteria are not met.	
Inhalation	Based on available data, the classification criteria are not met.	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Numerical measures of toxicity

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (dermal)8,579.40 mg/kg

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silanetriol, methyl-, triacetate 4253-34-3	LD50 = 1600 mg/kg (Rat) OECD 401		
Decamethylcyclopentasiloxane 541-02-6	> 24134 mg/kg (Rat)	> 16 mL/kg (Rabbit)	
Octamethylcyclotetrasiloxane 556-67-2	LD50 > 4800 mg/kg (Rat) OECD 401	LD50 > 2400 mg/kg (Rat) OECD 402	= 36 g/m³ (Rat)4 h
Dodecamethylcyclohexasiloxa ne 540-97-6	> 50 g/kg (Rat)		
4,5-dichloro-2-octyl-2H-isothiaz ol-3-one [DCOIT] 64359-81-5	= 1636 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 0.26 mg/L (Rat)4 h

### 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.

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Product Information					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Non-irritant

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

Product Information					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			Non-irritant

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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

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

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 556-67-2		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.	

## SECTION 12: Ecological information

## 12.1. Toxicity

## Ecotoxicity

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor
	plants		Micro-organisms		
Octamethylcyclotetrasilo	-	LC50: >1000mg/L	-	EC50: =25.2mg/L	-
xane		(96h, Lepomis		(24h, Daphnia	
556-67-2		macrochirus) LC50:		magna)	
		>500mg/L (96h,			
		Brachydanio rerio)			
4,5-dichloro-2-octyl-2H-i	EC50 (72h) =0.025	LC50 (96h) 0.0078	-	EC50 (48h) 0.0097	-
sothiazol-3-one [DCOIT]	mg/L Algae	mg/L Fish		mg/L Daphnia	
64359-81-5	(Scenedesmus	(Oncorhynchus		magna (OECD	
	subspicatus)(OEC	mykiss)(OECD		202)	
	D 201)	203)			

## 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

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Bioaccumulation

There is no data for this product.

### **Component Information**

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	
Decamethylcyclopentasiloxane 541-02-6	8.02	-	
Octamethylcyclotetrasiloxane 556-67-2	6.49	12400	
Dodecamethylcyclohexasiloxane 540-97-6	8.87	-	
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] 64359-81-5	4.4	13	

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This preparation contains substances considered to be persistent, bio-accumulating and toxic (PBT), or to be very persistent or very bioaccumulating (vPvB). .

Chemical name	PBT and vPvB assessment		
Triacetoxy(propyl)silane 17865-07-5	The substance is not PBT / vPvB		
Silanetriol, methyl-, triacetate 4253-34-3	The substance is not PBT / vPvB		
Decamethylcyclopentasiloxane	PBT / vPvB substance		
541-02-6	The substance is not PBT / vPvB		
Octamethylcyclotetrasiloxane	PBT / vPvB substance		
556-67-2	The substance is not PBT / vPvB		
Dodecamethylcyclohexasiloxane	PBT / vPvB substance		
540-97-6	The substance is not PBT / vPvB		

## 12.6. Other adverse effects

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	Do not reuse empty containers. 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

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Land transport (ADR/RID) Not regulated 14.1 UN Number 14.2 Proper Shipping Name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing Group Not regulated 14.5 Environmental hazards Not applicable 14.6 Special Provisions None IMDG 14.1 UN number Not regulated 14.2 Proper Shipping Name Not regulated Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated 14.5 Marine Pollutant Np 14.6 Special Provisions None 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available Air transport (ICAO TI / IATA DCP)

Air transport (ICAO-II / IATA-DGR)			
14.1 UN number	Not regulated		
14.2 Proper Shipping Name	Not regulated		
14.3 Transport hazard class(es)	Not regulated		
14.4 Packing group	Not regulated		
14.5 Environmental hazards	Not applicable		
14.6 Special Provisions	None		

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

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

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.		
Decamethylcyclopentasiloxane	541-02-6		
Octamethylcyclotetrasiloxane	556-67-2		
Dodecamethylcyclohexasiloxane	540-97-6		

#### 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
Decamethylcyclopentasiloxane	541-02-6	70.
Octamethylcyclotetrasiloxane	556-67-2	70.

### Substance subject to authorisation per REACH Annex XIV

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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

#### 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 FUH014 - Reacts violently with water

EUH014 - Reacts violently with wate EUH071 - Corrosive to the respirator H226 - Flammable liquid and vapour H302 - Harmful if swallowed H314 - Causes severe skin burns an H317 - May cause an allergic skin re H318 - Causes serious eye damage H330 - Fatal if inhaled H361f - Suspected of damaging ferti H400 - Very toxic to aquatic life H413 - May cause long lasting harm	ry tract nd eye damage eaction				
	Legend SVHC: Substances of Very High Concern for Authorisation:				
LegendSECTION 8: Exposure controls/personal protection TWASTELSTEL (Short Term Exposure Limit)TWATWA (time-weighted average)STEL*STEL (Short Term Exposure Limit)CeilingMaximum limit value**Skin designationPBTPersistent, Bioaccumulative, and Toxic (PBT) Chemicals STOT RE*Stin designationSTOT RESpecific target organ toxicity - Repeated exposure STOT SESingle exposureEWC:European Waste Catalogue*					
Key literature references and sources for data No information available					
Prepared By	Product Safety & Regulatory Affairs				
Revision date	02-Aug-2019				
Indication of changes					
Revision note	First time release.				
Training Advice	No information available				

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**Further information** 

No information available

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

## Disclaimer

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

**End of Safety Data Sheet**