

This safety data sheet was created pursuant to the requirements of:
GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

1. Identification

Product identifier

Product Name BOSTIK SAFE SEAL Black
Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

Responsible Party

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

Manufacturer

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.AP@Bostik.com

Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622
+64 4 917 9888
Poison Centre : 0800 764 766

Recommended use of the chemical and restrictions on use

Recommended use Sealant
Restrictions on use No information available

2. Hazard(s) identification

Classification of the substance or mixture

Skin sensitization	Category 1 (6.5B)
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Classification in parenthesis is applicable for New Zealand Hazard Classification

Label elements



Signal word Warning

Hazard statements

H317 - May cause an allergic skin reaction

Precautionary Statements - General

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

Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves

Response

IF exposed:

Skin

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Carbonic acid, calcium salt (1:1)	471-34-1	40 - <80
Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-[3-(dimethoxymethylsilyl)propyl]-.omega.-[3-(dimethoxymethylsilyl)propoxy-]	75009-88-0	10 - <20
Diisononyl 1,2-cyclohexanedicarboxylate	166412-78-8	10 - <20
Micronised amide modified hydrogenated castor oil rheology modifier	--	5 - <10
.alpha., .alpha., .alpha."-1,2,3-Propanetriyltris[.omega.-(3-dimethoxymethylsilyl)propoxy] poly[oxy(methyl-1,2-ethanediyl)]	151865-59-7	1 - <5
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	100545-48-0	1 - <3
Carbon black	1333-86-4	1 - <3
Trimethoxyvinylsilane	2768-02-7	0.1- <1
Antistatic agents	--	0.1- <1
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate	2082-79-3	0.1- <1
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	0.1- <1
Stearic acid	57-11-4	0.1- <1
3-(Triethoxysilyl) propylamine	919-30-2	0.1- <1
Dioctyltin oxide	870-08-6	0.1- <1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1- <1
Quartz	14808-60-7	0.01 - < 0.1
1,2-Ethanediamine, N,N'-bis[3-(trimethoxysilyl)propyl]-	68845-16-9	0.01 - < 0.1
Ethane-1,1-diamine, N,N-bis(3-(trimethylsiloxy) propyl)	74956-86-8	<0.01
1-Aza-2-silacyclopentane-1-ethanamine, 2,2-dimethoxy-1,3-di (3- (2-aminoethyl) amino) propyl-1,1,3,3-tetramethoxydisiloxane	618914-51-5	<0.01
	--	<0.01
Methyl alcohol	67-56-1	<0.01
Methyl silicate	681-84-5	<0.01
Methyl alcohol	67-56-1	<0.01

*** Any remaining ingredients are not hazardous

4. First-aid measures

Description of necessary first aid measures

Inhalation

Remove to fresh air.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

Skin contact	Wash skin with soap and water.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
<u>Most important symptoms/effects, acute and delayed</u>	
<u>Symptoms</u>	No information available.
<u>For emergency responders</u>	
<u>Self-protection of the first aider</u>	No information available.
<u>Note to physicians</u>	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.
<u>Specific hazards arising from the chemical</u>	No information available.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO ₂). Hydrocarbons.

Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

- Prevent further leakage or spillage if safe to do so.
- Pick up and transfer to properly labeled containers.

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

7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.
See Section 8 for information on appropriate personal protective equipment

Conditions for safe storage, including any incompatibilities

Protect from moisture.

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

8. Exposure controls/personal protection

Occupational exposure limits

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

Chemical name	New Zealand	Australia	European Union
Carbonic acid, calcium salt (1:1) 471-34-1	TWA: 10 mg/m ³	10 mg/m ³ TWA	-
Carbon black 1333-86-4	TWA: 3 mg/m ³	3 mg/m ³ TWA	-
Diocetyl tin oxide 870-08-6	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin	0.1 mg/m ³ TWA 0.2 mg/m ³ STEL	-
Quartz 14808-60-7	TWA: 0.05 mg/m ³	0.05 mg/m ³ TWA	TWA: 0.1 mg/m ³
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin	200 ppm TWA 262 mg/m ³ TWA 250 ppm STEL 328 mg/m ³ STEL	TWA: 200 ppm TWA: 260 mg/m ³ *
Methyl silicate 681-84-5	TWA: 1 ppm TWA: 6 mg/m ³	1 ppm TWA 6 mg/m ³ TWA	-
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin	200 ppm TWA 262 mg/m ³ TWA 250 ppm STEL 328 mg/m ³ STEL	TWA: 200 ppm TWA: 260 mg/m ³ *

Chemical name	ACGIH TLV	NIOSH	OSHA PEL
Carbonic acid, calcium salt (1:1) 471-34-1	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	-
Carbon black 1333-86-4	TWA: 3 mg/m ³ inhalable particulate matter	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³
Stearic acid 57-11-4	TWA: 10 mg/m ³ inhalable particulate matter TWA: 3 mg/m ³ respirable particulate matter	-	-
Diocetyl tin oxide 870-08-6	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	IDLH: 25 mg/m ³ Sn TWA: 0.1 mg/m ³ except Cyhexatin Sn	TWA: 0.1 mg/m ³ Sn (vacated) TWA: 0.1 mg/m ³ Sn (vacated) S*
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S*
Methyl silicate 681-84-5	TWA: 1 ppm	TWA: 1 ppm TWA: 6 mg/m ³	(vacated) TWA: 1 ppm (vacated) TWA: 6 mg/m ³
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 250 ppm

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

			(vacated) STEL: 325 mg/m ³ (vacated) S*
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Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
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.
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 vapors filter conforming to EN 14387. White. Brown.

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Paste
Color	Black
Physical state	Solid
Odor	Slight Characteristic
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	Not applicable
pH (as aqueous solution)	No data available	
Melting point / freezing point	No data available	Not applicable
Initial boiling point and boiling range	No data available	Not applicable
Flash point	> 61 °C	CC (closed cup)
Evaporation rate	No data available	
Flammability	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	< 1100	hPa @ 50 °C
Relative vapor density	No data available	
Relative density	1.45 - 1.55	None known
Water solubility	slightly soluble	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	7000 - 13000 Pa.s	Spindle 4 @ 1 rpm @ 23 °C

Additional information

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

Oxidizing properties No information available
Solid content (%) No information available
Density ca. 1.5 g/cm³

10. Stability and reactivity

Stability Stable under normal conditions.

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions None under normal processing.

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

Incompatible materials None known based on information supplied.

Hazardous decomposition products None under normal use conditions. Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

11. Toxicological 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.

Acute Toxicity

Numerical measures of toxicity

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

ATEmix (dermal) 89,762.30 mg/kg
ATEmix (inhalation-dust/mist) 278.92 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbonic acid, calcium salt (1:1)	LD50 > 2000 mg/kg (Rattus) OECD 420	LD50 >2000 mg/kg (Rattus) OECD 402	LC50 (4h) >3mg/ml (Rattus)
Diisononyl 1,2-cyclohexanedicarboxylate	LD50 >5000 mg/kg Rat (OECD 423)	LD50 >2000 mg/Kg (Rattus) (OECD 402)	-
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LD50 >2000 mg/kg (Rattus)	-	LC50 =5.05 mg/kg (Rattus)
Carbon black	LD50 > 8000 mg/kg (Rattus) OECD 401	> 3 g/kg (Oryctolagus cuniculus)	> 4.6 mg/m ³ (Rat) 4 h
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3540 mg/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
Antistatic agents	LD50 (Rattus) > 5000 mg/kg OEXD 401	LD50 (Rattus) > 2000 mg/kg OECD 402	-
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate	>5000 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus cuniculus)	>1800 mg/L (Rattus) 4 h
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

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

	OECD 423	OECD 402	
dyl) sebacate Stearic acid	>5000 mg/Kg (Oryctolagus cuniculus)	> 5 g/kg (Oryctolagus cuniculus)	-
3-(Triethoxysilyl) propylamine	LD50 = 1490 mg/kg (Rat, female) EPA OTS 798.1175 LD50 = 2690 mg/kg (Rat, male) EPA OTS 798.1175	LD50 = 4076 mg/kg (Oryctolagus cuniculus) EPA OTS 798.1100	LC50 >144 mg/L (6h) Rat (Vapour)
Diocetyl tin oxide	=2500 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD50 = 2295 mg/kg (Rattus) EPA OPPTS 870.1100	LD50 > 2000 mg/kg (Oryctolagus cuniculus) EPA OPPTS 870.1200	-
Quartz	>2000 mg/kg (Rattus)	-	-
Methyl alcohol	=2500 mg/kg (Rattus)	200-1000 mg/kg (Oryctolagus cuniculus)	=22500 ppm (Rattus) 8 h = 64000 ppm (Rattus) 4 h
Methyl silicate	-	= 17 g/kg (Oryctolagus cuniculus) = 17 mL/kg (Oryctolagus cuniculus)	= 335 mg/m ³ (Rat) 4 h
Methyl alcohol	=2500 mg/kg (Rattus)	200-1000 mg/kg (Oryctolagus cuniculus)	=22500 ppm (Rattus) 8 h = 64000 ppm (Rattus) 4 h

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

Component Information					
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 Vitro Skin Corrosion: Human Skin Model Test	EPISKIN™	in vitro	0.02 g	4 hours	Non-irritant

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: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Non-irritant

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

Component Information					
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye	0.1 mL	72 hours	Non-irritant

Trimethoxyvinylsilane (2768-02-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye		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. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Eye Damage

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

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

Component Information			
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Sensitizing > 25 %

Trimethoxyvinylsilane (2768-02-7)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Not a skin sensitizer

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig		No sensitization responses were observed

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

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

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

Chemical name	China	IARC
Carbon black	Possibly carcinogenic to humans	Group 2B
Quartz	Carcinogenic to humans	Group 1

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

Component Information		
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (100545-48-0)		
Method	Species	Results
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 Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Not Classifiable

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)		
Method	Species	Results
OECD Test No. 414: Prenatal Development Toxicity Study	Rat, Rabbit	Reproductive toxicant

Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

Component Information	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)	
Diocetyl tin oxide (870-08-6)	

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Oral	5 mg/kg	28 days	0.3 - 0.5 mg/kg bw/day May cause damage to the following organs: Immune system

Specific target organ toxicity (repeated exposure)

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

Component Information					
Trimethoxyvinylsilane (2768-02-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413: Subchronic Inhalation Toxicity: 90-day Study	Rat	Inhalation vapor		90 days	0.058 NOAEL

Dioctyltin oxide (870-08-6)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat Rabbit			28 days	0.3 -0.5 mg/kg bw/day

Target organ effects Aspiration hazard

Eyes. Lungs. Respiratory system. Skin. Lymphatic System.
Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Carbonic acid, calcium salt (1:1)	IC50 72H Algae >1000 mg/l	CL50 96H >1000 mg/l	EC50 48H Daphnia >1000 mg/l
Diisononyl 1,2-cyclohexanedicarboxylate	EC50 >100mg/L (Scenedesmus subspicatus) Static (OECD 201)	LC50 (96h) >100mg/L (Brachydanio rerio) Static (OECD 203)	EC50 (48h) >100 mg/L (Daphnia magna) Static (OECD 202)
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	EL50 (72h) >100 mg/L Algae (Pseudokirchneriella subcapitata)	LL50 (96h) >10mg/L (Onchohynchus mykiss)	EL50 (48h) >10mg/L Daphnia (Daphnia magna)
Carbon black	>10000 mg/l (Desmodesmus subspicatus) OECD 202	>1000 mg/l (Brachydanio rerio) OCDE 203	EC50: >5600mg/L (24h, Daphnia magna)
Trimethoxyvinylsilane	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	EC50(48hr) 168.7mg/l (Daphnia magna)
Antistatic agents	EC50 (72h) > 100 mg/l (Desmodesmus subspicatus) OECD 201	LC50 (96h) > 100 mg/l (Danio rerio) ISO 7346-1	EC50 (48h) > 100 mg/l (Daphnia magna) OECD 202
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate	EC50: >30mg/L (72h, Desmodesmus subspicatus)	LC50: >100mg/L (96h, Lepomis macrochirus)	EC50: >100mg/L (24h, Daphnia magna)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata)	LC50 (96h) = 5.29 mg/l (Oryzias latipes)	LC50 48Hr 8.58 mg/l (Daphnia magna)
Stearic acid	EC50 >1016 mg/l 72Hr microbial growth inhibition	LC50 >1000 mg/l , 48 Hour	-
3-(Triethoxysilyl) propylamine	EC50 (72h) >1000 mg/L Green algae (desmodesmus)	LC50 (96h) >934 mg/L (Brachydanio rerio) (OECD TG)	EC50 (48h) =331 mg/L Daphnia magna (OECD TG)

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

	subspicatus) (OECD TG 201)	203)	202)
Diocetyl tin oxide	EC50 (3hr) >1.000 mg/l (bacteria) (Activated Sludge, Respiration Inhibition Test)	LC50 (96hr) >0,09 mg/l (Brachydanio rerio (zebra)) (Acute Toxicity Test)	EC50 (48Hr) >0,21 mg/l (Daphnia magna (Daphnia magna)) (Daphnia sp. Acute Immobilisation Test)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-	LC50 (96H) =597 mg/L (Danio rerio)Semi-static	EC50 (48h) =81mg/L Daphnia magna Static
Methyl alcohol	-	LC50: >100mg/L (96h, Pimephales promelas) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: =28200mg/L (96h, Pimephales promelas) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss)	-
Methyl alcohol	-	LC50 96 h > 100 mg/L (Pimephales promelas static)	-

Persistence and degradability No information available.

Bioaccumulative potential There is no data for this product.

Chemical name	Partition coefficient
Poly[oxy(methyl-1,2-ethanediy)],.alpha.-[3-(dimethoxymethylsilyl)propyl]-.omega.-[3-(dimethoxymethylsilyl)propoxy-]	1.8
Diisononyl 1,2-cyclohexanedicarboxylate	10
Trimethoxyvinylsilane	1.1
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate	13.5
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35
Stearic acid	8
3-(Triethoxysilyl) propylamine	1.7
Diocetyl tin oxide	6
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
Methyl alcohol	-0.77
Methyl alcohol	-0.77

Chemical name	PBT and vPvB assessment
Carbonic acid, calcium salt (1:1) 471-34-1	The substance is not PBT / vPvB PBT assessment does not apply
Diisononyl 1,2-cyclohexanedicarboxylate 166412-78-8	The substance is not PBT / vPvB
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 100545-48-0	The substance is not PBT / vPvB
Carbon black 1333-86-4	The substance is not PBT / vPvB PBT assessment does not apply
Trimethoxyvinylsilane 2768-02-7	The substance is not PBT / vPvB
Octadecyl 3-(3',5'-di-tert-butyl-4'-hydroxyphenyl)propionate 2082-79-3	The substance is not PBT / vPvB PBT assessment does not apply
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	The substance is not PBT / vPvB
Stearic acid 57-11-4	The substance is not PBT / vPvB
3-(Triethoxysilyl) propylamine 919-30-2	The substance is not PBT / vPvB
Diocetyl tin oxide 870-08-6	The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	The substance is not PBT / vPvB
Methyl alcohol	The substance is not PBT / vPvB

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

67-56-1	PBT assessment does not apply Further information relevant for the PBT assessment is necessary
Methyl silicate 681-84-5	The substance is not PBT / vPvB
Methyl alcohol 67-56-1	The substance is not PBT / vPvB PBT assessment does not apply Further information relevant for the PBT assessment is necessary

Mobility in soil No information available.

13. Disposal considerations

Waste chemicals

Waste from residues/unused products Dispose of in accordance with local regulations Dispose of waste in accordance with environmental legislation

Contaminated packaging Do not reuse empty containers

14. Transport information

IMDG Not regulated

IATA Not regulated

ADR Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information

National regulations

ERMA Group HSR002670

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

SAFETY DATA SHEET

BOSTIK SAFE SEAL Black
Revision Number 2.01

Revision date 19-Jul-2021
Supersedes Date: 28-Jul-2019

vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE Specific target organ toxicity - Repeated exposure
STOT SE Specific target organ toxicity - Single exposure

Revision date 19-Jul-2021
Revision note SDS sections updated. 2. 3.

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

New Zealand's Chemical Classification and Information Database (CCID)
World Health Organization

Disclaimer

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End of Safety Data Sheet