

BOSTIK SAFE FIX
Revision Number 3Revision date 01-Aug-2019
Supersedes Date: 26-Mar-2018**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product Identifier****Product Name** BOSTIK SAFE FIX
Pure substance/mixture Mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Adhesives.
Uses advised against No information available.**1.3. Details of the supplier of the safety data sheet****Company Name**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**1.4. Emergency telephone number****Emergency Telephone** 24 Hr: 0800 243 622
+64 4 917 9888
Poison Centre : 0800 764 766**E-mail address** SDS.AP@Bostik.com**Section 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

Skin sensitization	Category 1 (6.5B)
Flammable liquids	Category 4 (3.1D)

2.2. Label Elements**Signal word** Warning**Hazard statements**H317 - May cause an allergic skin reaction
H227 - Combustible liquid**Prevention**P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection**Skin**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse

Fire

P370 + P378 - In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish

Storage

P403 + P235 - Store in a well-ventilated place. Keep cool

Disposal

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

2.3. Other Hazards

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No.	Weight-%
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	100545-48-0	1 - <3
Silane, ethenyltrimethoxy-	2768-02-7	1 - <3
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1- <1
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	0.1- <1

*** Any remaining ingredients are not hazardous

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. Remove contaminated clothing and shoes.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eyelids apart and consult an physician.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-protection of the first aider	First aider: Pay attention to self-protection!

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

Symptoms None known.

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

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

4.4. Reference to Other Sections

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Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

Large fire When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO₂). Halogenated hydrocarbons. Nitrogen oxides (NO_x).

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

5.3. Advice for firefighters

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses. 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 Use personal protection equipment. Avoid contact with skin, eyes or clothing. Do not touch or walk through spilled material.

6.2. Environmental precautions

Environmental precautions Do not allow to enter into soil/subsoil. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

6.4. Reference to other sections

Reference to other sections Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Fire prevention measures. No special measures are necessary.

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7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing.

Storage Conditions Keep container tightly closed and dry. Product cures with moisture.

Incompatible materials Water

7.3. Specific end use(s)

Specific Use(s) Sealant.

Other information No information available.

7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS. Section 10: STABILITY AND REACTIVITY.

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) No information available

Predicted No Effect Concentration (PNEC) No information available

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

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

PPE - Personal Protection Equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.

Hand protection Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Respiratory protection No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

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

Appearance Fibers Paste

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Color clear
Odor Characteristic
Odor threshold No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	Not applicable
Boiling point / boiling range	No data available	
Flash point	> 61 °C	CC (closed cup)
Evaporation rate	No data available	
Flammability (solid, gas)	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
Vapor density	No data available	
Relative density	1.4 - 1.6	None known
Water solubility	Reacts with water	
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	approx. 5000 - 10000 Pa.s	
Explosive properties	No information available	
Oxidizing properties	No information available	

9.2. Other information

Softening Point	No information available
Molecular weight	No information available
Solvent content (%)	No information available
Solid content (%)	No information available
Density	1.5 g/cm ³
Bulk density	No information available
VOC Content (%)	< - g/L / 3 %

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Product cures with moisture.

10.2. Chemical stability

Stability Stable under normal conditions

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

Hazardous polymerization 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 Water.

10.6. Hazardous decomposition products

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Hazardous decomposition products None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

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.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 100545-48-0	LD50 >2000 mg/kg (Rat)	-	LC50 =5.05 mg/kg (Rat)
Silane, ethenyltrimethoxy- 2768-02-7	LD 50 = 7120 -7236 mg/kg (Rat) OECD 401	= 3360 µL/kg (Rabbit)	LC50 (4hr) 16.8 mg/l (rat) OECD TG 403
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LD50 = 2295 mg/kg (rat) EPA OPPTS 870.1100	LD50 > 2000 mg/kg (rabbit) EPA OPPTS 870.1200	-
Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate 52829-07-9	LD50 (rat) > 2000 mg/kg OECD 423	LD50 (rat) > 3 170 mg/kg OECD 402	= 500 mg/m ³ (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.
Serious eye damage/eye irritation Based on available data, the classification criteria are not met.
Sensitization May produce an allergic reaction.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target organ effects Eyes, Lungs, retina, Skin.
Aspiration hazard Not applicable.
Carcinogenicity Based on available data, the classification criteria are not met.

IARC (International Agency for Research on Cancer) *Group 2B - Possibly Carcinogenic to Humans*

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Component Information

Data obtained on the component(s) include

Chemical name	Algae/aquatic plants	Fish	Crustacea
Octadecanoic acid, 12-hydroxy-, reaction products with	EL50 (72h) >100 mg/L Algae (Pseudokirchneriella subcapitata)	LL50 (96h) >10mg/L Fish (Onchohynchus mykiss)	EL50 (48h) >10mg/L Daphnia (Daphnia magna)

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ethylenediamine 100545-48-0			
Silane, ethenyltrimethoxy- 2768-02-7	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)
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-	LC50 (96H) =597 mg/L Fish (Danio rerio)Semi-static	EC50 (48h) =81mg/L Daphnia magna Static
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata)	LC50 (96h) = 5.29 mg/l (Oryzias latipes)	LC50 48Hr 8.58 mg/l (Daphnia magna)

12.2. Persistence and degradability

No information available.

Component Information			
Silane, ethenyltrimethoxy- (2768-02-7)			
Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	BOD	51 % Not readily biodegradable

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)			
Method	Exposure time	Value	Results
OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment -- A: Activated Sludge Units; B: Biofilms	28 days	Total organic carbon (TOC)	24 % Moderate

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Silane, ethenyltrimethoxy- 2768-02-7	1.1	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-0.3	-
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	0.35	-

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 100545-48-0	The substance is not PBT / vPvB
Silane, ethenyltrimethoxy- 2768-02-7	The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	The substance is not PBT / vPvB
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	The substance is not PBT / vPvB

12.6. Other adverse effects

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No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Handle contaminated packages in the same way as the product itself.

Section 14: TRANSPORT INFORMATION

IMDG	<u>Not regulated</u>
IATA	<u>Not regulated</u>
ADR	<u>Not regulated</u>

Section 15: REGULATORY INFORMATION

National Regulations

ERMA Group	HSR2657
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Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Key Literature References and Sources for Data

No information available

Prepared By	Product Safety & Regulatory Affairs
Revision date	01-Aug-2019
Revision note	SDS sections updated, 2, 3, 15.
Training Advice	When working with hazardous materials, regular training of operators is required by law

Disclaimer

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End of Safety Data Sheet