SAFETY DATA SHEET

BOSTIK SAFE SEAL GREY
Revision Number 2
Revision date 29-Jul-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 SEAL GREY
Pure substance/mixture Mixture

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

Recommended use Sealant.
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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 3 (6.3B)</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1 (6.5B)</td>
</tr>
</tbody>
</table>

Classification in parenthesis is applicable for New Zealand Hazard Classification

2.2. Label Elements

Signal word Warning

Hazard statements
H316 - Causes mild skin irritation
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

Skin
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

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octadecanoic acid, 12-hydroxy-, reaction products</td>
<td>100545-48-0</td>
<td>1 - &lt;3</td>
</tr>
<tr>
<td>with ethylenediamine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</td>
<td>52829-07-9</td>
<td>0.1 - &lt;1</td>
</tr>
<tr>
<td>3-(Triethoxysilyl) propylamine</td>
<td>919-30-2</td>
<td>0.1 - &lt;1</td>
</tr>
<tr>
<td>N-(3-(trimethoxysilyl)propyl)ethylenediamine</td>
<td>1760-24-3</td>
<td>0.1 - &lt;1</td>
</tr>
</tbody>
</table>

*** 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, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

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.

4.4. Reference to Other Sections

Reference to other sections  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11:
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 (NOx).

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.

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.

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.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage Conditions
Keep away from food, drink and animal feeding stuffs. Protect from moisture. Keep/store only in original container. Protect from sunlight. Store in a well-ventilated place. Keep at temperatures between 41 and 95 °F. Keep container tightly closed and dry. Product cures with moisture.

Incompatible materials
Water

7.3. Specific end use(s)
Sealant.

Other information
No information available.

7.4. References 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
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Appearance  Paste
Color  Gray
Odor  Slight Characteristic
Odor threshold  No information available

Property  Values  Remarks  •  Method
pH  No data available  Not applicable
Melting point / freezing point  No data available  Not applicable
Boiling point / boiling range  No data available  Not applicable
Flash point  No data available  Not applicable
Evaporation rate  No data available  Not applicable
Flammability (solid, gas)  No data available  Not applicable
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  1.45 - 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
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  ca. 1.5 g/cm³  @20°C
Bulk density  No information available
VOC Content (%)  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

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. Extremes of temperature and direct sunlight. Keep from freezing. Product cures with moisture.

10.5. Incompatible materials
Incompatible materials  Water.
10.6. Hazardous decomposition products

Hazardous decomposition products  None under normal use conditions.

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**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**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine</td>
<td>LD50 &gt;2000 mg/kg (Rat)</td>
<td>-</td>
<td>LC50 =5.05 mg/kg (Rat)</td>
</tr>
<tr>
<td>100545-48-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9</td>
<td>LD50 (rat)&gt; 2000 mg/kg OECD 423</td>
<td>LD50 (rat) &gt; 3 170 mg/kg OECD 402</td>
<td>= 500 mg/m³ (Rat ) 4 h</td>
</tr>
<tr>
<td>3-(Triethoxysilyl) propylamine 919-30-2</td>
<td>LD50 = 1490 mg/kg (Rat, female) EPA OTS 798.1175</td>
<td>LD50 = 4075 mg/kg (Rabbit) EPA OTS 798.1100</td>
<td>LC50 &gt;144 mg/L (6h) Rat (Vapour)</td>
</tr>
<tr>
<td>N-(3-(trimethoxysilyl)propyl) ethylenediamine 1760-24-3</td>
<td>LD50 = 2295 mg/kg (rat) EPA OPPTS 870.1100</td>
<td>LD50 &gt; 2000 mg/kg (rabbit) EPA OPPTS 870.1200</td>
<td>-</td>
</tr>
</tbody>
</table>

**Component Information**

**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

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**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
12.2. Persistence and degradability

No information available.

**Component Information**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9</td>
<td>0.35</td>
<td>-</td>
</tr>
<tr>
<td>3-(Triethoxysilyl) propylamine 919-30-2</td>
<td>1.7</td>
<td>3.4</td>
</tr>
<tr>
<td>N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3</td>
<td>-0.3</td>
<td>-</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

There is no data for this product.

**Component Information**

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<td>-0.3</td>
<td>-</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9</td>
<td>The substance is not PBT / vPvB</td>
</tr>
<tr>
<td>3-(Triethoxysilyl) propylamine 919-30-2</td>
<td>The substance is not vPvB</td>
</tr>
<tr>
<td>N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3</td>
<td>The substance is not PBT / vPvB</td>
</tr>
</tbody>
</table>

12.6. Other adverse effects

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
Not regulated

IATA
Not regulated

ADR
Not regulated

Section 15: REGULATORY INFORMATION

National Regulations
ERMA Group
HSR002670

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
29-Jul-2019

Revision note
SDS sections updated, 3, 8, 11.

Training Advice
When working with hazardous materials, regular training of operators is required by law

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