SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

Revision date 01-Aug-2019
Supersedes Date: 28-May-2018

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name          SEAL N FLEX 1 GREY
Pure substance/mixture Mixture

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

Recommended use      Adhesives and/or sealants.
Uses advised against  No information available.

1.3. Details of the supplier of the safety data sheet

Company Name          Manufacturer
Bostik New Zealand Limited          Bostik Australia Pty Ltd
19 Eastern Hutt Road Wingate,          51-71 High Street,
Lower Hutt, New Zealand              Thomastown Victoria
Tel:  04-567 5119                  Australia
Fax:  04-567 5412                  Tel:  613 9279-9333

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

ABN: 79 003 893 838

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4 (6.1D)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 3 (6.3B)</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Category 1 (6.5A)</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1 (6.5B)</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2 (6.7B)</td>
</tr>
<tr>
<td>Hazardous to the Aquatic Environment - Acute Hazard</td>
<td>Category 2 (9.1D)</td>
</tr>
</tbody>
</table>

2.2. Label Elements

Signal word
Danger

Hazard statements
H351 - Suspected of causing cancer
H401 - Toxic to aquatic life
H316 - Causes mild skin irritation
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H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction

Prevention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P284 - In case of inadequate ventilation wear respiratory protection
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves
P273 - Avoid release to the environment

Inhalation
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

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

Storage
P405 - Store locked up

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 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician. Artificial respiration and/or oxygen may be necessary. Oxygen or artificial respiration if needed. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Skin contact
Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Mixture

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>1330-20-7</td>
<td>5 - &lt;10</td>
</tr>
<tr>
<td>Urea, N,N'-[(methylene-4,1-phenylene)bis[N'-butyl-</td>
<td>77703-56-1</td>
<td>1 - &lt;5</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>1 - &lt;3</td>
</tr>
<tr>
<td>Benzenesulfonfyl isocyanate, 4-methyl-</td>
<td>4083-64-1</td>
<td>0.1- &lt;1</td>
</tr>
<tr>
<td>Benzene, 1,3-disocyanatomethyl-</td>
<td>26471-62-5</td>
<td>0.1- &lt;1</td>
</tr>
</tbody>
</table>

*** Any remaining ingredients are not hazardous
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reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.

**Eye contact**
If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

**Ingestion**
Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider**
Use personal protective equipment as required

**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**
May cause sensitization of susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically. 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: TOXICOLOGY INFORMATION.

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**Section 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**
Suitable extinguishing media
Use extinguishing agent suitable for type of surrounding fire.

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 irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Hazardous combustion products**
Carbon oxides.

**5.3. Advice for firefighters**
Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions**
Avoid creating dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing and eye/face protection. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**For emergency responders**
Sweep up to prevent slipping hazard.

**6.2. Environmental precautions**
Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Prevent dust cloud. Take up mechanically, placing in appropriate containers for disposal.

Methods for cleaning up

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Avoid creating dust. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. 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

Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation.

7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Storage Conditions


Incompatible materials

Water Alcohols Strong bases Strong oxidizing agents Finely powdered metals

7.3. Specific end use(s)

Specific Use(s)

Adhesives and/or sealants.

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Zealand</th>
<th>Australia</th>
<th>European Union</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p-isomers)</td>
<td>TWA: 50 ppm</td>
<td>80 ppm TWA</td>
<td>TWA: 50 ppm</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>TWA: 217 mg/m³</td>
<td>350 mg/m³ TWA</td>
<td>TWA: 221 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 ppm STEL</td>
<td>STEL: 100 ppm</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>NIOSH IDLH</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers) 1330-20-7</td>
<td>STEL: 150 ppm TWA: 100 ppm</td>
<td>-</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>TWA: 20 ppm</td>
<td>IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³</td>
<td>TWA: 100 ppm TWA: 435 mg/m³</td>
</tr>
<tr>
<td>Benzene, 1,3-diisocyanatomethyl-26471-62-5</td>
<td>STEL: 0.005 ppm inhalable fraction and vapor TWA: 0.001 ppm inhalable fraction and vapor</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL) . Predicted No Effect Concentration (PNEC)

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 into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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: 1
Vapor density: No data available
Relative density: No data available
Water solubility: No data available
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: No data available
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: 1.6 g/cm³
- Bulk density: No information available
- VOC Content (%): 64 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity: None under normal use conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization may occur.

10.4. Conditions to avoid
Conditions to avoid: Keep from any possible contact with water. Extremes of temperature and direct sunlight. Storage near to reactive materials. Protect from moisture. Product cures with moisture.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Hazardous decomposition products: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects
Acute Toxicity
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Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation
No data available.

Eye contact
No data available.

Skin contact
No data available.

Ingestion
No data available.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Inhalation LC50 (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers) 1330-20-7</td>
<td>&gt;3500 Rat</td>
<td>&gt;1700 Rabbit</td>
<td>&gt;47635 Rat 4 h</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>3500 Rat</td>
<td>15400 Rabbit</td>
<td>&gt;1432 Rabbit 4 h</td>
</tr>
<tr>
<td>Benzenesulfonyle isocyanate, 4-methyl-4083-64-1</td>
<td>2234 Rat</td>
<td>LD 50 (Rat) &gt;2000 mg/kg OECD 402</td>
<td>&gt;640 ppm Rabbit 1 h</td>
</tr>
<tr>
<td>Benzene, 1,3-disocyanatomethyl-26471-62-5</td>
<td>3060 Rat</td>
<td>10000 Rabbit</td>
<td>0.107 mg/L (Vapour)</td>
</tr>
</tbody>
</table>

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

Skin corrosion/irritation
No information available.

Serious eye damage/eye irritation
No information available.

Sensitization
No information available.

Germ cell mutagenicity
No information available.

Reproductive toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target organ effects
retina, Eyes, Skin, liver, Lungs.

Aspiration hazard
No information available.

Carcinogenicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>China</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Group 2B</td>
<td>Possibly carcinogenic to humans</td>
<td>Group 2B</td>
</tr>
<tr>
<td>Benzenesulfonyle isocyanate, 4-methyl-4083-64-1</td>
<td>Group 2B</td>
<td>-</td>
<td>Group 2B</td>
</tr>
<tr>
<td>Benzene, 1,3-disocyanatomethyl-26471-62-5</td>
<td>Group 2B</td>
<td>-</td>
<td>Group 2B</td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information
Harmful to aquatic life with long lasting effects. Very toxic to aquatic life. Harmful to aquatic life. Toxic to aquatic life.

Component Information

Data obtained on the component(s) include

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers) 1330-20-7</td>
<td>-</td>
<td>LC50 96 h 2.6 mg/L (Oncorhynchus mykiss) (OECD 203)</td>
<td>EC50 48 h = 3.4 mg/L (water flea)</td>
</tr>
<tr>
<td>Urea, N,N&quot;-(methylene)-4,1-phenylene bis[N'-butyl-77703-56-1</td>
<td>EC50 (72h)&gt;100 mg/L Algae (Raphidocelis subcapitata)</td>
<td>LC50 (96h)&gt;250 mg/L Fish (Brachydianio reio)</td>
<td>EC50 (48h)&gt;100 mg/L Daphnia magna</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>EC50 72 h 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h = 4.2 mg/L (Oncorhynchus mykiss semi-static)</td>
<td>EC50: 1.8 - 2.4mg/L (48h, Daphnia magna)</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
There is no data for this product.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>3.15</td>
<td>15</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>100-41-4</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>3.2</td>
<td>15</td>
</tr>
<tr>
<td>Benzenesulfonyl isocyanate, 4-methyl-4083-64-1</td>
<td>0.6</td>
<td>-</td>
</tr>
<tr>
<td>Benzene, 1,3-diisocyanatomethyl-26471-62-5</td>
<td>-</td>
<td>5</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>Xylenes (o-, m-, p- isomers)</td>
<td>The substance is not PBT / vPvB</td>
</tr>
<tr>
<td>1330-20-7</td>
<td></td>
</tr>
<tr>
<td>Urea, N,N’-(methylene-4,1-phenylene)bis[N’-butyl-77703-56-1</td>
<td>Further information relevant for the PBT assessment is necessary</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>The substance is not PBT / vPvB</td>
</tr>
<tr>
<td>100-41-4</td>
<td></td>
</tr>
<tr>
<td>Benzenesulfonyl isocyanate, 4-methyl-4083-64-1</td>
<td>The substance is not PBT / vPvB</td>
</tr>
<tr>
<td>Benzene, 1,3-diisocyanatomethyl-26471-62-5</td>
<td>The substance is not PBT / vPvB</td>
</tr>
</tbody>
</table>

12.6. Other adverse effects
No information available.

Endocrine Disruptor Information

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 Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

IMDG Not regulated
IATA Not regulated
ADR Not regulated
Section 15: REGULATORY INFORMATION

National Regulations

ERMA Group  
HSR002679

Section 16: OTHER INFORMATION

Chronic Hazard Star Legend  
* = Chronic Health Hazard

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  
Not applicable.

Training Advice  
No information available

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