

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

Manufacturer
 Bostik Australia Pty Ltd
 51-71 High Street,
 Thomastown Victoria
 Australia
 Tel: 613 9279-9333
 Fax: 613 9279-9342

ABN: 79 003 893 838

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

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

2.2. Label Elements


Signal word Danger

Hazard statements
 H351 - Suspected of causing cancer
 H401 - Toxic to aquatic life
 H316 - Causes mild skin irritation

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

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 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

Mixtures

Chemical name	CAS No.	Weight-%
Xylenes (o-, m-, p- isomers)	1330-20-7	5 - <10
Urea, N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-	77703-56-1	1 - <5
Ethylbenzene	100-41-4	1 - <3
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1- <1
Benzene, 1,3-diisocyanatomethyl-	26471-62-5	0.1- <1

*** Any remaining ingredients are not hazardous

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

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

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.

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.

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

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

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 Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep container tightly closed and dry. Product cures with moisture.

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

Chemical name	New Zealand	Australia	European Union
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 217 mg/m ³	80 ppm TWA 350 mg/m ³ TWA 150 ppm STEL	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

		655 mg/m ³ STEL	STEL: 442 mg/m ³ *
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³	100 ppm TWA 434 mg/m ³ TWA 125 ppm STEL 543 mg/m ³ STEL	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ *

Chemical name	ACGIH TLV	NIOSH IDLH	OSHA PEL
Xylenes (o-, m-, p- isomers) 1330-20-7	STEL: 150 ppm TWA: 100 ppm	-	TWA: 100 ppm TWA: 435 mg/m ³
Ethylbenzene 100-41-4	TWA: 20 ppm	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	TWA: 100 ppm TWA: 435 mg/m ³
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	STEL: 0.005 ppm inhalable fraction and vapor TWA: 0.001 ppm inhalable fraction and vapor S*	-	-

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

Appearance	Paste
Color	Gray
Odor	Characteristic
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	No data available	

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

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/cm ³
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

Incompatible materials Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). 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

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Xylenes (o-, m-, p- isomers) 1330-20-7	= 3500 mg/kg (Rat)	> 1700 mg/kg (Rabbit) > 4350 mg/kg (Rabbit)	= >47635 mg/L (Rat) 4 h = >5000 ppm (Rat) 4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 1432 mg/L (Rat) 4 h
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	= 2234 mg/kg (Rat)	LD 50 (Rat) > 2000 mg/kg OECD 402	> 640 ppm (Rat) 1 h
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	= 3060 mg/kg (Rat)	= 10000 mg/kg (Rabbit)	= 0.107 mg/L (Rat) 4 h (Vapour)

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 The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.

Chemical name	IARC	China	Japan
Xylenes (o-, m-, p- isomers)	Group 3	-	-
Ethylbenzene	Group 2B	Possibly carcinogenic to humans	Group 2B
Benzene, 1,3-diisocyanatomethyl-	Group 2B	-	Group 2B

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
Xylenes (o-, m-, p- isomers) 1330-20-7	-	LC50 96 h 2.6 mg/L (Oncorhynchus mykiss) (OECD 203)	EC50 48 h = 3.4 mg/L (water flea)
Urea, N,N'-(methylenedi-4,1-phenylene) bis[N'-butyl- 77703-56-1	EC50 (72h) >100 mg/L Algae (Raphidocelis subcapitata)	LC50 (96h) >250 mg/L Fish (Brachydanio rerio)	EC50 (48h) >100 mg/L Daphnia magna
Ethylbenzene 100-41-4	EC50 72 h 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 4.2 mg/L (Oncorhynchus mykiss semi-static)	EC50: 1.8 - 2.4mg/L (48h, Daphnia magna)

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Xylenes (o-, m-, p- isomers) 1330-20-7	3.15	15
Ethylbenzene 100-41-4	3.2	15
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	0.6	-
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	-	5

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
Xylenes (o-, m-, p- isomers) 1330-20-7	The substance is not PBT / vPvB
Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl- 77703-56-1	Further information relevant for the PBT assessment is necessary
Ethylbenzene 100-41-4	The substance is not PBT / vPvB
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	The substance is not PBT / vPvB
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	The substance is not PBT / vPvB

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

SAFETY DATA SHEET

SEAL N FLEX 1 GREY
Revision Number 3

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

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

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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