



Safety Data Sheet

BOSTIK'S BEST(R)
Revision Number 3.01

Revision Date 07-Jan-2019
Supersedes Date: 14-Dec-2018

1. Identification

1.1. Product Identifier

Product Name BOSTIK'S BEST(R)

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

Responsible Party

Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1 (800) 843-0844 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)
Fax: +1 (414) 774-8075

E-mail msds@bostik.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332
(Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| | |
|--|-------------|
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Reproductive toxicity | Category 1B |
| Specific target organ toxicity (repeated exposure) | Category 2 |

2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure

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Appearance Paste

Physical State Liquid

Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see first aid measures on this label)
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown acute toxicity

28 % of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

| Chemical Name | CAS No. | Weight-% |
|--|------------|----------|
| Limestone | 1317-65-3 | 30 - 60 |
| Naphtha, petroleum, heavy alkylate | 64741-65-7 | 3 - 7 |
| Benzene, 1,1'-methylenebis[isocyanato- | 26447-40-5 | 1 - 5 |
| Quartz | 14808-60-7 | 0.1 - 1 |
| Benzenesulfonyl isocyanate, 4-methyl- | 4083-64-1 | 0.1 - 1 |
| Dibutyltin dilaurate | 77-58-7 | 0.1 - 1 |

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**The exact percentage (concentration) of composition has been withheld as a trade secret.*

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---|---|
| General advice | Remove and isolate contaminated clothing and shoes. |
| Eye contact | In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | Move victim to fresh air. Administer oxygen if breathing is difficult. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or physician immediately. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |

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

Symptoms No information available.

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.

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
Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media
Strong water jet.

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. Product is or contains a sensitizer. May cause sensitization by skin contact.

Explosion Data

| | |
|---|-------|
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |

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5.3. Advice for firefighters

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Avoid contact with skin, eyes or clothing.

6.2. Environmental precautions

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. 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

Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

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. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep out of the reach of children. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct contact with water or excessive 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.

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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 Guidelines . This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

| Chemical Name | ACGIH TLV | NIOSH IDLH | OSHA PEL | Mexico |
|---|---|--|---|---|
| Limestone 1317-65-3 | - | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ STEL: 20 mg/m ³ |
| Benzene, 1,1'-methylenebis[isocyanato - 26447-40-5 | - | - | Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³ | TWA: 0.02 ppm TWA: 0.2 mg/m ³ TWA: 0.005 ppm TWA: 0.051 mg/m ³ |
| Quartz 14808-60-7 | TWA: 0.025 mg/m ³ respirable fraction | 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 : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction | TWA: 0.1 mg/m ³ |
| Dibutyltin dilaurate 77-58-7 | 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 | TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ |

| Chemical Name | Argentina | Brazil | Chile | Venezuela |
|---|---|--------|--|---|
| Limestone 1317-65-3 | TWA: 10 mg/m ³ | - | TWA: 7 mg/m ³ | - |
| Benzene, 1,1'-methylenebis[isocyanato - 26447-40-5 | TWA: 0.005 ppm | - | TWA: 0.004 ppm TWA: 0.045 mg/m ³ | - |
| Quartz 14808-60-7 | TWA: 0.05 mg/m ³ | - | TWA: 0.08 mg/m ³ | TWA: 0.025 mg/m ³ |
| Dibutyltin dilaurate 77-58-7 | TWA: 0.1 mg/m ³ Skin STEL: 0.2 mg/m ³ | - | TWA: 0.09 mg/m ³ Skin | Skin STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³ |

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal protective equipment [PPE]

Eye/face protection Tight sealing safety goggles.
Skin and body 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.

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| | |
|---------------------------------------|---|
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| General hygiene considerations | Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Physical State | Liquid |
| Appearance | Paste |
| Color | Amber |
| Odor | No information available |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------------|-------------------------|
| pH | No information available | |
| Melting point / freezing point | No data available | |
| Boiling point / boiling range | > 172 °C / 342 °F | |
| Flash Point | > 110 °C / > 230 °F | ASTM D3278 |
| Evaporation Rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No information available | |
| Lower flammability or explosive limits | No information available | |
| Vapor Pressure | No information available | |
| Vapor Density | No information available | |
| Relative Density | No information available | |
| Water Solubility | No information available | |
| Solubility in Other Solvents | | |
| Partition coefficient | No information available | |
| Autoignition Temperature | No information available | |
| Decomposition Temperature | No information available | |
| Kinematic Viscosity | No information available | |
| Dynamic Viscosity | No information 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 (%) | 93.0 | |
| Density | 1.508 g/cm ³ | |
| VOC (volatile organic compound) | | 20 g/L |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

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None under normal use conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization may occur.

10.4. Conditions to avoid

Keep from any possible contact with water. Extremes of temperature and direct sunlight. Storage near to reactive materials. Protect from moisture.

10.5. Incompatible materials

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

10.6. 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

| | |
|----------------------------|--|
| Product information | No data available |
| Inhalation | May cause sensitization by inhalation. |
| Eye contact | No data available. |
| Skin contact | May cause sensitization by skin contact. |
| Ingestion | No data available. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-----------------------|--------------------------|-------------------------------------|
| Limestone 1317-65-3 | >5000 mg/kg (rat) | - | - |
| Naphtha, petroleum, heavy alkylate 64741-65-7 | > 7000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5.04 mg/L (Rat) 4 h |
| Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5 | > 10000 mg/kg (Rat) | > 10000 mg/kg (Rabbit) | = 490 mg/m ³ (Rat) 4 h |
| Quartz 14808-60-7 | = 6450 mg/kg (Rat) | - | - |
| Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1 | = 2234 mg/kg (Rat) | - | > 640 ppm (Rat) 1 h |
| Dibutyltin dilaurate 77-58-7 | = 2071 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |

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

| | |
|--|---------------------------|
| Symptoms | No information available. |
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Irritation | No information available. |

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| | |
|---------------------------------|--|
| Corrosivity | No information available. |
| Sensitization | May cause sensitization by inhalation and skin contact. |
| Germ Cell Mutagenicity | No information available. |
| Reproductive Toxicity | Product is or contains a chemical which is a known or suspected reproductive hazard. |
| Developmental Toxicity | No information available. |
| Teratogenicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Chronic Toxicity | Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Repeated or prolonged exposure may cause central nervous system damage. Repeated or prolonged contact causes sensitization, asthma and eczemas. |
| Target Organ Effects | Eyes, Respiratory system, Skin, Central nervous system. |
| Aspiration hazard | No information available. |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. |

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|-------|---------|-------|------|
| Benzene, 1,1'-methylenebis[isocyanato - 26447-40-5 | - | Group 3 | - | - |
| Quartz 14808-60-7 | A2 | Group 1 | Known | X |

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to Microorganisms | Crustacea |
|---|---|--|----------------------------|--------------------------------------|
| Limestone 1317-65-3 | CE50 (72h) >200mg/L Algae (Desmondesmus subspicatus) | CL50 (96h) >10000mg/L Fish (Oncorhynchus mykiss) | | CE50 (48h) >1000 mg/L Daphnia Magna |
| Naphtha, petroleum, heavy alkylate 64741-65-7 | EC50: =30000mg/L (72h, Pseudokirchneriella subcapitata) | | | LC50: =2mg/L (48h, Mysidopsis bahia) |
| Benzene, 1,1'-methylenebis[isocyanato - 26447-40-5 | EC50: =3230mg/L (96h, Skeletonema costatum) | | | EC50: >1000mg/L (24h, Daphnia magna) |
| Dibutyltin dilaurate 77-58-7 | | LC50: =2mg/L (48h, Oryzias latipes) | | |

12.2. Persistence and degradability

No information available.

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12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

Contaminated packaging Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

Section 15: REGULATORY INFORMATION

Global Inventories

| | |
|-------------|--------|
| TSCA | Listed |
| DSL | Listed |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

United States of America

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | CAS No. |
|--|----------------|
| Benzene, 1,1'-methylenebis[isocyanato- | 26447-40-5 |

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | No |

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Reactive Hazard

No

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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 07-Jan-2019

Revision note SDS sections updated, 14.

Training Advice No information available

Further information 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