



Safety Data Sheet

In accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

BOSTIK'S BEST(R)
Revision Number 1

Revision Date 09-Jan-2019
Supersedes Date: 09-Jan-2019

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Name BOSTIK'S BEST(R)

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Adhesives and/or sealants

Uses advised against No information available

Details of the supplier of the safety data sheet

Responsible Party
Bostik Canada Limited
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Manufacturer Address
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11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
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Phone: +1 (414) 774-2250 (International)
Fax: +1 (414) 774-8075

E-mail msds@bostik.com

Emergency telephone number

Chemtrec: 1-800-424-9300 (Transport/Environmental)
Rocky Mountain Poison Center: 1-866-767-5089

2. Hazards Identification

Classification

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

Label Elements

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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Precautionary Statements - Prevention

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

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

3. Composition/information on Ingredients

Substance

Not applicable.

Mixture

Chemical Name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Limestone	1317-65-3	30 - 60	-	-
Naphtha, petroleum, heavy alkylate	64741-65-7	3 - 7	-	-
Benzene, 1,1'-methylenebis(isocyanato-	26447-40-5	0.5 - 1.5	-	-
Quartz	14808-60-7	0.1 - 1	-	-
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - 1	-	-

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Dibutyltin dilaurate	77-58-7	0.1 - 1	-	-
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4. First Aid Measures

FIRST AID

General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Eye contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Call a physician if irritation persists.
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.
Ingestion	May produce an allergic reaction. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. May cause allergic skin reaction. Itching. Rashes. Hives.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically.
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5. Fire-Fighting Measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Evacuate personnel to safe areas.

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. 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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and Storage

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. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

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. Keep away from water or moist air.

Reference to other sections Section 10: STABILITY AND REACTIVITY

8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits . 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	Alberta	British Columbia	Ontario TWA	Quebec
Limestone	TWA: 10 mg/m ³	TWA: 10 mg/m ³		TWA: 10 mg/m ³

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1317-65-3		TWA: 3 mg/m ³ STEL: 20 mg/m ³		
Benzene, 1,1'-methylenebis[isocya nato- 26447-40-5		TWA: 0.005 ppm Ceiling: 0.01 ppm Sensitizer		
Quartz 14808-60-7	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
Dibutyltin dilaurate 77-58-7	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

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

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

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 data 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 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	

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Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Water Solubility	No data available
Solubility in Other Solvents	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.

Other information

Softening Point	No information available
Molecular Weight	No information available
Density	1.508 g/cm ³
Bulk Density	No information available
Solid content (%)	93.0
VOC (volatile organic compound)	20 g/L

10. Stability and Reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization may occur.
Conditions to avoid	Protect from moisture. Keep from any possible contact with water. Extremes of temperature and direct sunlight. Storage near to reactive materials.
Incompatible materials	Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x). Hydrogen cyanide. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. Toxicological Information

Information on likely routes of exposure

Product information

Inhalation	May cause sensitization in susceptible persons. (based on components).
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	May cause sensitization by skin contact. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	May cause additional affects as listed under "Inhalation".

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling
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of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.
Coughing and/ or wheezing. Itching. Rashes. Hives.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg

ATEmix (dermal) 26,670.00 mg/kg
mg/l

ATEmix (inhalation-dust/mist) 73.40 mg/l

Unknown acute toxicity

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

21 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

23 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

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

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

27 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization May cause sensitization by inhalation. May cause sensitization by skin contact.

Germ cell mutagenicity 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[isocya nato- 26447-40-5	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	X

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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

Reproductive toxicity	Contains a known or suspected reproductive toxin.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target Organ Effects	Eyes, Respiratory system, Skin, Central nervous system.
Subchronic Toxicity	No information available.
Neurological Effects	No information available.
Other Adverse Effects	No information available.
Aspiration hazard	No information available.

12. Ecological Information

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus 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)	-	-

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Component Information

Chemical Name	Partition coefficient
Limestone 1317-65-3	0.9
Benzene, 1,1'-methylenebis[isocyanato- 26447-40-5	4.5
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	0.6
Dibutyltin dilaurate	4.44

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77-58-7

Mobility in soil No information available

Other Adverse Effects No information available.

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused products 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 Do not reuse empty containers.

14. Transport Information

TDG Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory Information

NPRI - National Pollutant Release Inventory

No component is listed on the NPRI above the threshold

International 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.

16. Other information, including date of preparation of the last revision

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

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

Ceiling Maximum limit value

STEL

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STEL (Short Term Exposure Limit)

Skin designation

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Revision note Not applicable.

Prepared By Product Safety & Regulatory Affairs

Disclaimer

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End of Safety Data Sheet