



Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

1. Identification

1.1. Product Identifier

Product Name BST(TM)

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

Recommended use Adhesives.
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

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018



Appearance Paste

Physical State Liquid

Odor Solvent

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 workplace 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	40 - 70
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

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

**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	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.
Eye contact	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. If symptoms persist, call a physician.
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	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
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. Use water spray or fog; do not use straight streams.

Unsuitable extinguishing media

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

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

Explosion Data

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

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

5.3. Advice for firefighters

Protective equipment and precautions for firefighters

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. Stop leak if you can do it without risk. Do not touch or walk through spilled material. 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 Protect from moisture. 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.

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. Wash thoroughly after handling. 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.

7.3. Specific end use(s)

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

Specific Use(s)

Adhesives and/or sealants. Adhesives.

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 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.

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

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.
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. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes, skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it 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	Solvent
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 (%)	95.4	
Density	1.654 g/cm ³	
VOC (volatile organic compound)		22 g/L

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions. Reacts with water.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Protect from moisture.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

None known based on information supplied.

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.

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

Irritation	No information available.
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.
Target Organ Effects	Eyes, Respiratory system, Skin.
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 (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)		

12.2. Persistence and degradability

No information available.

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

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

Safety Data Sheet

BST(TM)
Revision Number 2

Revision Date 14-Dec-2018
Supersedes Date: 04-Oct-2018

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

14-Dec-2018

Revision note

SDS sections updated, 2, 5, 6, 7, 9, 10, 14, 15.

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