

In accordance with OSHA 29 CFR 1910.1200

BST(TM)
Revision Number 1

Revision date 27-Feb-2024 Supersedes Date: Not applicable

## 1. Identification

#### 1.1. Product identifier

Product Name BST(TM)

Other means of identification

Other information Not applicable

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

Recommended use Adhesives

Restrictions on use 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) 726-7845 (Domestic Toll Free) Phone: +1 (414) 774-2250 (International)

E-mail msds@bostik.com

1.4. Emergency telephone number

Emergency Telephone CHEMTREC (Chemical Transportation Emergency Center)

Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)

Rocky Mountain Poison Center: 1-866-767-5089

## 2. Hazard(s) 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

### Hazards not otherwise classified (HNOC)

Not applicable

#### 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

US - EN Page 1/12

Revision Number 1 Revision date 27-Feb-2024 Supersedes Date: 27-Feb-2024



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

Wear protective gloves/protective clothing/eye protection/face protection

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing must 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 IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: If breathing is difficult, 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

19 % of the mixture consists of ingredient(s) of unknown toxicity

#### 2.3. Other Information

Causes mild skin irritation.

## 3. Composition/information on ingredients

## 3.1. Substances

Not applicable.

### <u>Mixture</u>

Chemical name	CAS No.	Weight-%
Limestone	1317-65-3	40 - 70
Naphtha (petroleum), hydrotreated heavy, <0.1%	64742-48-9	3 - <7
Benzene		
Methylenediphenyl diisocyanate	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

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

US - EN Page 2/12

BST(TM)

Revision date 27-Feb-2024

Revision Number 1

Supersedes Date: 27-Feb-2024

## 4. First-aid measures

#### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** May cause allergic respiratory reaction. Remove to fresh air. If breathing is difficult, (trained

personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give

mouth-to-mouth resuscitation. Get immediate medical attention.

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** May cause an allergic skin reaction. May cause sensitization by skin contact. Wash off

immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic

reactions see a physician.

Ingestion May produce an allergic reaction. Rinse mouth. 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.

4.2. 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. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

**Effects of Exposure** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO2, sand, earth, water spray or regular foam. Use water spray or fog; do not

use straight streams.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

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

US - EN Page 3/12

BST(TM)

Revision date 27-Feb-2024

Revision Number 1

Supersedes Date: 27-Feb-2024

Hazardous combustion products Carbon oxides. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide.

Isocyanates. Sulfur oxides. Thermal decomposition can lead to release of irritating and toxic

gases and vapors.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

### 6. Accidental release measures

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

you can do it without risk. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through

spilled material.

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

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 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.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. 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. Take off contaminated clothing and wash

before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

US - EN Page 4/12

BST(TM) Revision date 27-Feb-2024
Revision Number 1 Supersedes Date: 27-Feb-2024

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. Store locked up. Protect from

moisture.

Recommended storage temperature Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

7.3 References to other sections

Reference to other sections Section 10: STABILITY AND REACTIVITY

Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure controls/personal protection

#### 8.1. 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. The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Limestone	-	TWA: 15 mg/m³ total dust	TWA: 10 mg/m <sup>3</sup> total dust
1317-65-3		TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
		fraction	
		(vacated) TWA: 15 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Methylenediphenyl diisocyanate	-	Ceiling: 0.02 ppm	-
26447-40-5		Ceiling: 0.2 mg/m <sup>3</sup>	
Quartz	TWA: 0.025 mg/m³ respirable		IDLH: 50 mg/m <sup>3</sup> respirable dust
14808-60-7	particulate matter	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> respirable
		respirable dust	dust
		: (250)/(%SiO2 + 5) mppcf	
		TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
Dibutyltin dilaurate	TWA: 0.1 mg/m³ Sn	TWA: 0.1 mg/m³ Sn	IDLH: 25 mg/m <sup>3</sup> Sn
77-58-7	STEL: 0.2 mg/m <sup>3</sup> Sn	(vacated) TWA: 0.1 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> except
	Sk*	(vacated) S*	Cyhexatin Sn

Chemical name	Argentina	Brazil	Chile	Colombia
Limestone	TWA: 10 mg/m <sup>3</sup>	-	LPP: 7 mg/m <sup>3</sup>	-
1317-65-3			LPP: 5 mg/m <sup>3</sup>	
Methylenediphenyl diisocyanate	TWA: 0.005 ppm	-	LPP: 0.004 ppm	-
26447-40-5			LPP: 0.045 mg/m <sup>3</sup>	
Quartz	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	LPP: 0.08 mg/m <sup>3</sup>	TWA: 0.025mg/m <sup>3</sup>
14808-60-7			1	1
Dibutyltin dilaurate	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	LPP: 0.09 mg/m <sup>3</sup>	STEL: 0.2mg/m <sup>3</sup>
77-58-7	STEL: 0.2 mg/m <sup>3</sup>	STEL: 0.2 mg/m <sup>3</sup>	Sk*	TWA: 0.1mg/m <sup>3</sup>
	Sk*			

US - EN Page 5/12

Revision Number 1 Revision date 27-Feb-2024 Supersedes Date: 27-Feb-2024

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Methylenediphenyl diisocyanate 26447-40-5	TWA: 0.005ppm	-	-	-
Quartz 14808-60-7	TWA: 0.025mg/m <sup>3</sup>	TWA: 0.05mg/m <sup>3</sup>	0.025 mg/m³ TWA (respirable particulate matter)	TWA: 0.025 mg/m <sup>3</sup>
Dibutyltin dilaurate 77-58-7	TWA: 0.1mg/m³ STEL: 0.2mg/m³		0.2 mg/m³ STEL (as Sn) 0.1 mg/m³ TWA (as Sn)	

#### 8.2. Exposure controls

#### **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). Avoid contact with eyes.

**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.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection**Use appropriate respiratory protection.

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 and face before breaks and immediately after handling the product. Take off contaminated clothing and wash it before reuse.

Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearancePasteColorAmberOdorSolvent

Odor threshold No information available

Property Values Remarks • Method

 pH
 No data available
 None known

 pH (as aqueous solution)
 No data available
 None known

 Melting point / freezing point
 No data available
 None known

Initial boiling point and boiling range 172 °C / 341.6 °F

US - EN Page 6/12

BST(TM) Revision date 27-Feb-2024 **Revision Number 1** Supersedes Date: 27-Feb-2024

Flash point > 110 °C / 230 °F ASTM D3278 No data available

**Flammability** Flammability Limit in Air

No data available None known

None known Upper flammability or explosive No data available

limits

None known

No information available

Lower flammability or explosive No data available

limits

**Evaporation rate** 

Vapor pressure No data available None known No data available Relative vapor density None known Relative density No data available None known Water solubility No data available None known Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known No data available Kinematic viscosity None known No data available **Dynamic viscosity** None known

9.2. Other information

No information available **Explosive properties Oxidizing properties** No information available Solvent content (%) No information available

Solid content (%) 95.4

Softening point No information available No information available Molecular weight

VOC content

No information available **Bulk density** 

Density 1.654 g/cm<sup>3</sup>

## 10. Stability and reactivity

10.1. Reactivity

Reactivity Reacts violently with water.

10.2. Chemical stability

Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Protect from moisture.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied

## 11. Toxicological information

US - EN Page 7/12

BST(TM)

Revision date 27-Feb-2024

Revision Number 1

Supersedes Date: 27-Feb-2024

#### 11.1. Information on toxicological effects

#### **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** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

(based on components). May cause sensitization by skin contact. Causes mild skin

irritation.

Ingestion Specific test data for the substance or mixture is not available. 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

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness

and irritation.

Acute toxicity

Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) 42,061.60 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) 80.71 mg/l
ATEmix (inhalation-vapor) >20 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Naphtha (petroleum), hydrotreated heavy, <0.1% Benzene 64742-48-9	>6000 mg/kg (Rattus)	> 3160 mg/kg (Oryctolagus cuniculus)	>8500 mg/m³ (Rattus) 4 h
Methylenediphenyl diisocyanate 26447-40-5	>10000 mg/kg (Rattus)	> 10000 mg/kg (Oryctolagus cuniculus)	=490 mg/m³ (Rattus) 4 h
Quartz 14808-60-7	>2000 mg/kg (Rattus)	-	-
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	=2234 mg/kg (Rattus)	LD 50 (Rattus) > 2000 mg/kg OECD 402	>640 ppm (Rattus) 1 h
Dibutyltin dilaurate 77-58-7	=2071 mg/kg (Rattus) OECD 401	> 2000 mg/kg (Rattus)	-

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

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes mild skin irritation.

US - EN Page 8/12

BST(TM) Revision date 27-Feb-2024
Revision Number 1 Supersedes Date: 27-Feb-2024

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Carcinogenicity 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.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Methylenediphenyl diisocyanate 26447-40-5	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	Х

#### Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Methylenediphenyl diisocyanate (26447-40-5)

Method	Species	Results
	in vivo	Limited evidence of a carcinogenic effect

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure**May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**Based on available data, the classification criteria are not met.

Other adverse effects

No information available.

Interactive effects No information available.

## 12. Ecological information

## 12.1. Toxicity

#### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Limestone	CE50 (72h) >200mg/L	CL50 (96h)>10000mg/L	-	CE50 (48h) >1000 mg/L
1317-65-3	Algae (Desmondesmus	(Oncorhynchus mykiss)		Daphnia Magna
	subspicatus)			-

US - EN Page 9/12

BST(TM) Revision date 27-Feb-2024
Revision Number 1 Supersedes Date: 27-Feb-2024

Naphtha (petroleum), hydrotreated heavy, <0.1% Benzene 64742-48-9	-	LC50: =2200mg/L (96h, Pimephales promelas)	-	LC50: =2.6mg/L (96h, Chaetogammarus marinus)
Methylenediphenyl diisocyanate 26447-40-5	EC50: =3230mg/L (96h, Skeletonema costatum)	-	-	EC50: >1000mg/L (24h, Daphnia magna)
Dibutyltin dilaurate 77-58-7	EC50 1 (72h) mg/L (desmodesmus subspicatus)	LC50: =2mg/L (48h, Oryzias latipes)	-	0,463 (48h) mg/L (daphnia magma)

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Limestone 1317-65-3	0.9
Methylenediphenyl diisocyanate 26447-40-5	4.5
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	0.6
Dibutyltin dilaurate 77-58-7	4.44

## 12.4. Mobility in soil

**Mobility** No information available.

Other adverse effects

Other adverse effects No information available.

## 13. Disposal considerations

## 13.1. 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** Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

US - EN Page 10/12

BST(TM) Revision date 27-Feb-2024
Revision Number 1 Supersedes Date: 27-Feb-2024

**DOT** Not regulated

IATA Not regulated

**IMDG** Not regulated

## 15. Regulatory information

#### **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.

#### **US Federal Regulations**

### **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.	SARA 313 - Threshold Values %
Methylenediphenyl diisocyanate	26447-40-5	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **Europe**

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

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation. This document is based on the information given to us by our own suppliers at the date of this document.

## **SVHC: Substances of Very High Concern for Authorization:**

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

## 16. Other information

#### 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) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value Sk\* Skin designation

Prepared By Product Safety & Regulatory Affairs.

US - EN Page 11/12

Revision Number 1 Revision date 27-Feb-2024 Supersedes Date: 27-Feb-2024

Revision date 27-Feb-2024

**Revision Note** No information available.

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at

https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-mana gement/medical-device-policy/ which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

**End of Safety Data Sheet** 

US - EN Page 12/12