

## SDS of BST Nitrile Butadiene Latex (8503, 8503S)

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Trade Name** : BST Nitrile Butadiene Latex (8503, 8503S)

**Chemical Name** : Carboxylated Acrylonitrile Butadiene Latex

**Synonyms** : No data available

Molecular Formula:  $(\text{CH}_2-\text{CH}=\underset{\text{CN}}{\text{CH}}-\text{CH}_2-\text{CH}_2-\text{CH})_n$

1.2 Use: Variety of Glove applications

**1.3 Max. Quantity Storage:** Not applicable

**1.4 Manufacturer/Import:** Bangkok Synthetics Company Limited (Latex Business)

**1.5 Address:** 8, I-2 Rd. Maptaphut Industrial Estate, Muang District, Rayong 21150, Thailand  
Tel.: 0-3894-9049 Fax. : 0-3894-9098

### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of Substance or Mixture

- Classification according to Directive 1999/45/EC : Not classified

#### 2.2 Label Elements:

**Hazard Symbol or Symbol:** Not applicable

**Precautionary Statements:** Not expected to produce significant adverse health effect when the recommended instruction for use is followed.

#### 2.3 Other Hazards information

**Other hazards which do not result in classification:** Not available

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### 3.COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Percent	U.N. No.	CAS.No.	Safety Standard	
				TLV (PPM.)	LD50 (mg/kg)
Carboxylated Butadiene Acrylonitrile Polymer	40-50	-	9010-81-5	-	-
Water	50-60	-	7732-18-5	-	-

Note -: No data available.

### 4.First - aid measures

#### 4.1 Description of first aid measures

**1 Skin:** Wash skin with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.

**2 Eyes:** Immediately flush eyes with large quantities of clean water for at least 15 minutes. Consult a physician.

**3 Inhalation:** Remove affected individual(s) to fresh air. Seek medical attention if breathing difficulty develops.

**4 Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

#### 4.2 Potential acute health effects

**Skin:** Short single exposure not likely to cause significant skin irritation. Prolonged and repeated exposure may cause slight skin irritation. Material may stick to skin causing irritation upon removal. A single, prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

**Eye:** Direct contact with this material may cause eye irritation including tearing and redness. Corneal injury is unlikely.

**Inhalation:** Inhalation of vapor may cause irritation to the respiratory tract (nose, throat, and Lungs) with good ventilation; single exposure to vapors is not likely to be hazardous.

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**Ingestion:** Single dose oral toxicity is considered to be extremely low. Ingestion (swallowing) may irritate the mouth, throat, and stomach. No hazards anticipated from swallowing small amounts incidental to normal handling

### 4.3 Potential Chronic health effects.

**Chronic effects:** No known significant effects or critical hazards

**Carcinogenicity:** Not Classified

- IRAC, NTP, OSHA, ACGIH, Regulation 1272/2008, USEPA: No listed

**4.4 Notes to physician:** No specific antidote. Supportive care, treatment based on judgment of the physician in response to reactions of the patient.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media

**Suitable Extinguishing Media:** To extinguish combustible residues of this product, use water fog, carbon dioxide, dry chemical or foam.

### 5.2 Special Hazards Arise from the Substance or Mixture

**Hazards from the substance or mixture:** No data available

**Hazardous decomposition Products:** Under fire conditions, some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to hydrocarbons, carbon monoxide and dense smoke.

### 5.3 Advice for Firefighters

**Special Fire-Fighting Procedures:** No data available.

**Special Protective Equipment for Firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**5. 4 Flash Point:** No data available.

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### 5.5 Explosion Limits:

- LEL%: No data available. - UEL%: No data available.

**5.6 Auto ignition Temperature:** No data available.

**5.7 Hazard class:** No data available.

## 6.ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions:** Avoid unnecessary exposure and contact. Barricade the area to restrict access. Person's not wearing protective equipment (see Section 8) should be excluded from the area of the spill until clean-up has been completed.

**6.2 Environmental Precautions:** Stop leak at source when it is safe to do so. Dike and contain spill. Prevent spilled material from contaminating soil or entering drains, sewers, streams or other bodies of water.

**6.3 Method and Materials for Containment and Cleaning Up:** Avoid dilution with water to minimize the extent of the spill. Recover and recycle spilled latex if possible, otherwise, collect with chemical absorbent material and transfer to appropriate containers for disposal. Water may be used for final cleaning of affected area.

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### 7.HANDLING AND STORAGE

**7.1 Precaution for safe handling:** Practice reasonable care to avoid repeated, prolonged skin contact. An eye wash station and a safety shower should be readily accessible to workers wherever this material is stored or used.

**7.2 Condition for Safe Storage including any incompatibilities:** Keep from freezing. Storage at temperatures between 4°C and 45°C and avoiding exposure to direct sunlight. Material may develop bacteria odor on long-term storage. No safety problem known.

**7.3 Incompatible Materials:** No Data Available

### 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Exposure limit value:** No Data Available

**8.2 Exposure Control:** No Data Available

**Ventilation:** Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local exhaust ventilation may be necessary for some operations.

#### 8.3 personal protection measures

**Respiratory Protection:** Respiratory protection is not generally required during normal use and handling. ANIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Protective Gloves:** Nitrile, neoprene®, or rubber gloves should provide protection against skin contact.

**Eye Protection:** Wear safety glasses with side shields or goggles.

**Other Protective Equipment:** Wear clean, long-sleeved, body-covering clothing.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 General information Appearance

**Physical State:** Liquid

**Colour:** Milky white liquid emulsion

**Odour:** Slight odor

**9.2 Odour threshold limit:** No data available.

**9.3 pH:** 8.0 – 9.0

**9.4 Melting Point:** No data available; **Freezing Point:** 17.6 °F (-8 °C)

**9.5 Initial boiling point and boiling range:** 212 °F (100 °C)

**9.6 Flash point:** No data available.

**9.7 Evaporation Rate:** No data available

**9.8 Flammability (Solid/Gas):** No data available.

**9.9 Upper Flammability/Explosive limits:** No data available.

**Lower Flammability/Explosive limits:** No data available.

**9.10 Vapor Pressure:** 17.5 mm Hg @ 68° F (20 °C)

**9.11 Vapor density:** No data available.

**9.12 Relative density:** No data available

**9.13 Solubility:** Solubility in Water: Product as sold is dilutable. Polymer component is insoluble.

Solubility in Other Liquids: No data available.

**9.14 partition Coefficient : n-octanol / water :** No data available

**9.15 Specific Gravity) (Water=1):** 0.98 – 1.04

**9.16 Auto ignition temperature:** No data available.

**9.17 Decomposition temperature:** No data available.

**9.18 Viscosity:** No data available.

**9.19 Molecular Weight:** No data available.

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### 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** No data available.

**10.2 Stability:** This material is stable during storage and during intended use.

**10.3 Possibility of hazardous reaction:** Hazardous polymerization will not occur

**10.4 Conditions to avoid :** Avoid freezing temperatures (less than 32° F or 0° C). Product can decompose at elevated temperatures.

**10.5 Incompatible Materials :** Addition of chemicals, such as acids or multivalent metal salts, may cause coagulation.

**10.6 Hazardous Decomposition Products :** Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Potential acute health effects

**Skin:** Short single exposure not likely to cause significant skin irritation. Prolonged and repeated exposure may cause slight skin irritation. Material may stick to skin causing irritation upon removal. A single, prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

**Eye:** Direct contact with this material may cause eye irritation including tearing and redness. Corneal injury is unlikely.

**Inhalation:** Inhalation of vapor may cause irritation to the respiratory tract (nose, throat, and Lungs) with good ventilation; single exposure to vapors is not likely to be hazardous.

**Ingestion:** Single dose oral toxicity is considered to be extremely low. Ingestion (swallowing) may irritate the mouth, throat, and stomach. No hazards anticipated from swallowing small amounts incidental to normal handling

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### 11.2 Potential Chronic health effects.

**Chronic affects** No data available

**Carcinogenicity:** Not Classified

- IRAC, NTP, OSHA, ACGIH, Regulation 1272/2008, USEPA: No listed

### 11.3 Acute Toxicity Level:

**Acute oral toxicity:** Not available

**Acute dermal toxicity:** Not available

**Acute inhalation toxicity:** Not available

## 12. ECOLOGICAL INFORMATION

**12.1 Eco-Toxicity:** Based largely or completely on information for similar material(s): Material is practically non-toxic to aquatic organisms on an acute basis (LC50 or EC50 > 100 mg/L in the most sensitive species tested).

**12.2 Persistence and Degradability:** The polymeric component is not expected to biodegrade

**12.3 Bio accumulative Potential:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Other Adverse effect:** Latex dispersions will color water a milky white. No bio concentration of the polymeric component is expected because of its high molecular weight.



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### 13. DISPOSAL CONSIDERATIONS

13.1 Observe all federal, state and local regulations disposing of this substance.

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

FOR UNUSED OR UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted recycler, reclaimer, incinerator or other thermal destruction device.

### 14. TRANSPORT INFORMATION

**14.1 UN No. :** Not available

**14.2 UN proper shipping name:** not regulated.

**14.3 Transport hazard class:**

U.S. DOT hazard class: not regulated

Canada TDG hazard class: not regulated

Europe ADR/RID hazard class: not regulated

IMDG Code (ocean) hazard class: not regulated

ICAO/IATA (air) hazard class: not regulated

**14.4 Packing group:** Not applicable

**14.5 Environmental hazards:**

Marine pollutant: not applicable

Hazardous substance (USA): not applicable

**14.6 Transport in bulk according to annex II of MARPOL73/78 and the ICB code:** Not available

**14.7 Special precautions for user/Additional information:** Not available

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### 15. REGULATORY INFORMATION

#### 15.1 Thailand Regulation

- **Labor Protection Act B.E.2541:** No data available.
- **Hazardous Substance Act B.E. 2535:** No data available

**15.2 CLP Regulation:** European Regulation (EC) No 1272/2008 on Classification, Labeling and Packaging of Substances and Mixtures: No data available.

**15.3 OSHA :** Components of this material is classified as a hazardous chemical under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.

**15.4 TSCA :** Section 8(b) - Inventory Status: All components of this material are listed on or are exempt from the US Toxic Substances Control Act (TSCA) inventory.

**15.5 SARA :** SARA Title III Section 313 Toxic Chemical List (TCL): To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: - A delayed health hazard.

**15.6 REACH Regulation:** Material is not listed

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### 16. OTHER INFORMATION

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

##### Definition

**ACGIH**: American Conference of Governmental Industrial Hygienists

**IARC** : International Agency for Research on Cancer

**OSHA** : Occupational Safety and Health Administration

**SARA** : Superfund Amendments and Reauthorization Act

**TLV** : Threshold Limit Value

**TSCA** : Toxic Substances Control Act

**DOT** : Department of Transportation

**LD50** : Lethal Dose 50%

##### References

1. MSDS of Dow Reichhold Specialty Latex LLC

##### Remark Additional Information Available from

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