

# เอกสารเพื่อความปลอดภัยในการปฏิบัติงานกับสารเคมี SBR 1502

รหัสเอกสาร S-PSM-BE-S01043 วันที่มีผลบังคับใช้ 26 มกราคม 2569  
พิมพ์ครั้งที่ 11 หน้า 1/9 ID-0136/26

## 1. Identification of the substance and of the supplier

- 1.1 Trade Name** : Styrene Butadiene Rubber (SBR-Non Oil Grade) or SBR 1502
- 1.2 Molecular Formula** :  $(\text{CH}_2\text{-CH}=\text{CH-CH}_2\text{-CH}_2\text{-CH})_n$   

- 1.3 Manufacturer /Import** : BST Elastomers Company Limited
- 1.4 Address** : 5/1, I-7 Rd. Map Ta Phut Industrial Estate, Muang District, Rayong 21150, Thailand
- Phone number** : (+66) 3869 8698
- Fax** : (+66) 3869 8699
- Emergency Phone number** : (+66) 3869 8601 (Mutual Aid Coordinator Center)
- 1.5 Relevant identified uses of the substance or mixture and uses advised against** : Not applicable
- 1.6 Identified uses** : Raw material for the production of tires. Prohibited for use in the production of food-grade products.

## 2. Hazards Identification

### 2.1 Classification of the mixture according to Globally Harmonized System (GHS) standards (GHS hazard statements and category)

Not classified

### 2.2 GHS label elements

- Hazard Pictogram** : Not applicable
- Signal Word** : Not applicable
- Hazard Statement** : Not applicable
- Precautionary Statement** : Not applicable

### 2.3 There hazards which do not result in classification : Not available

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## 3. Composition/ Information on Ingredients

- 3.1 Chemical type (Substance/Mixture)** : Substance  
**3.2 Chemical identity** : Styrene Butadiene copolymer  
**3.3 Common name and synonym** : Styrene Butadiene Rubber (SBR)  
**3.4 CAS number** : 9003-55-8  
**3.5 EC number** : 618-370-2  
**3.6 Impurities and stabilizing additives** : Not available  
**3.7 Ingredient :**

Substances	CAS No.	EC No.	% by weight
Styrene Butadiene Copolymer	9003-55-8	618-370-2	100%

## 4. First Aid Measures

### 4.1 Description of first aid measures

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

**Eyes** : Wash eyes with large amounts of water occasionally lifting upper and lower lids, until no evidence of chemical remains at least 15-20 minutes.

**Inhalation** : Although this product is not known to cause respiratory problems, if breathing is difficult , remove to fresh air and provide oxygen.

**Ingestion** : Ingestion is not considered a potential route of exposure.

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

#### Potential acute health effects :

Skin : May cause slight skin irritation .

Eyes : No hazards expected in normal industrial use at room temperature.

Inhalation : Irritating vapors may be formed when product is processed at high temperature.

Ingestion : Ingestion is not considered a potential route of exposure.

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

### 4.3 Indication of any immediate medical attention and special treatment needed Notes to :

No specific treatment. Treat symptomatically.

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## 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.

**Unsuitable Extinguishing Media** : Not available

### 5.2 Special Exposure Hazards

**Hazards from the substance or mixture** : Toxic and irritating gases/fumes maybe given off during burning or thermal decomposition

**Hazardous decomposition Products** : Carbon monoxide (from combustion)

### 5.3 Advice for Firefighters

#### Special Fire-Fighting Procedures :

- Fire fighters should wear proper protective apparatus including clothes and stay upwind.
- Move containers out of fire area and put out a fire if it can be done without risk.
- Cool containers with water spray until the fire is put out.
- Use water spray; Foam, CO2 or dry chemical power to extinguish flame.
- Keep personal removed and upwind of fire, isolate hazard area and deny the right to entry.
- Avoid inhale any materials or by-products during combustion.

**Special Protective Equipment for Firefighters** : Should wear appropriate protective equipment and SCBA with a full face-piece operated in positive pressure mode.

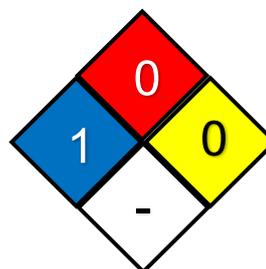
### 5.4 NFPA 704 Diamond

**Health hazard (Blue)** : 1

**Fire hazard (Red)** : 0

**Reactivity (Yellow)** : 0

**Specific hazard (White)** : -



**5.5 Fire and explosion protection** : Not available

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## 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures :** Wear appropriate personal protective equipment

**6.2 Environmental precautions :** Avoid to approach heater or ignition source. Sweep up and place in suitable containers. Do not flush spilled material into sewer. Keep unnecessary people away.

**6.3 Methods and materials for containment and cleaning up :**

**Small spill :** Take up mechanically , Treat or dispose of waste material in accordance with all local and national requirements.

**Large spill :** Handle as solid waste. Vacuum or sweep up material and place in a disposal container.

**6.4 Spill Management :** Not available

## 7. Handling and Storage

**7.1 Precautions for safe handling :**

- Make efforts to keep workplace clean and tidy, and avoid using fire.
- Since there is possibility of volatile matter generating during work, it may cause irritation to the eyes.
- After work, before smoking or eating, wash the hands well, and gargle.

**7.2 Conditions for safe storage, including any incompatibilities :**

- Indoor to prevent deterioration, avoid the following.
- Exposure to the direct sun rays.
- High temperature, high humidity.
- Outdoor storage.
- Even in the case of indoor storage, avoid storing in high-temperature area or near UV-emitting lights such as the incandescent lamps and mercury lamps.
- In case of bulk shipments, indoor to prevent crumbling of the bulk cargo, keep the height as low as possible

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## 8. Exposure Controls/ Personal Protection

### 8.1 Control parameters

TLV-TWA (ACGIH) : Not available

TLV-STEL (ACGIH) : Not available

TLV-C (ACGIH) : Not available

IDLH (NIOSH) : Not available

### 8.2 Personal protective equipment

**Respirators** : Respirator with a dust and mist filter in case dust formation.

**Skin** : Employee should wear appropriate protective gloves to prevent contact with this substance.

**Eyes** : Employee must wear splash-proof or dust resistant safety goggles to prevent eye contact with this substance.

**Other Protection** : Employee should wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

**8.3 Appropriate engineering controls** : Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operation generate dust, fume or dust use ventilation to keep exposure to airborne contaminants below the exposure limit.

## 9. Physical and chemical properties

### 9.1 General information Appearance

**Physical State** : Solid (Rubber bales)

**Color** : Pale yellow

**9.2 Odor** : Odorless to weak aromatic

**9.3 Odor threshold limit** : Not available

**9.4 pH** : Not available

**9.5 Melting point** : Not available

**9.6 Freezing point** : Not available

**9.7 Boiling point** : Not available

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- 9.8 Flash point** : Not available
- 9.9 Evaporation rate** : Not available
- 9.10 Flammability (solid, gas)** : No, but the product will burn if ignited
- 9.11 Lower Flammability/Explosive limits (LFL/LEL)** : Not available
- 9.12 Upper Flammability/Explosive limits (UFL/UEL)** : Not available
- 9.13 Vapor pressure** : Not available
- 9.14 Vapor density** : Not available
- 9.15 Relative density** : Not available
- 9.16 Solubility** : Insoluble in water.
- 9.17 Partition coefficient : n-octanol/water** : Not available
- 9.18 Auto-ignition temperature** : Not available
- 9.19 Decomposition temperature** : Not available
- 9.20 Viscosity** : Not available
- 9.21 Molecular Weight** : Not available
- 9.22 Specific gravity (Water=1)** : 0.94
- 9.23 Surface Tension** : Not available

## 10. Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable at ambient temperature and pressure.
- 10.3 Possibility of hazardous reactions** : If ignited by excessive heat or open flame the product will burn.
- 10.4 Condition to avoids** : Extreme temperature, 300-350 °C (572-662 °F) will cause thermal decomposition.
- 10.5 Incompatible materials** : Strong Oxidizers.
- 10.6 Hazardous decomposition products** : Carbon monoxide (from combustion), Carbon Dioxide, partially oxidized hydrocarbon.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

**Skin** : May cause mechanical irritation (abrasion). Contact with hot material will cause thermal burns.

**Eyes** : May cause mechanical irritation (abrasion).

**Inhalation** : May cause mechanical irritation (abrasion).

**Ingestion** : No known significant effects or critical hazards.

**11.2 Potential Chronic health effects** : No known significant effects or critical hazards

**11.3 Routes of Entry** : Not available

### 11.4 Acute toxicity

#### 11.4.1 LD50

**Oral (mg/kg)** : Not available

**Dermal (mg/kg)** : Not available

#### 11.4.2 LC50

**Inhalation (ppm, mg/m<sup>3</sup>)** : Not available

**11.5 Carcinogenicity/Germ cell mutagenicity (GHS or IARC)** : No carcinogenic substances as defined by IARC, NTP and/or OSHA.

## 12. Ecological Information

**12.1 Eco-Toxicity** : Not available

**12.2 Persistence and Degradability** : Not available

**12.3 Bioaccumulative potential** : Not available

**12.4 Mobility in soil** : Not available

**12.5 Other adverse effects** : The product is practically insoluble in water. No ecological problems are to be expected if the product is properly handling.

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## 13. Disposal considerations

**13.1 Waste and safe handling information** : Not available

**13.2 Waste treatment methods** : Incinerate or landfill in accordance with applicable environment control regulation. Recycle if possible.

**13.3 Contaminated containers/Packages** : Remove all packing for recover or waste disposal.

## 14. Transport information

**14.1 UN number** : 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 Marine pollutant** : Not applicable

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

**14.7 Special precautions** : Not available

**14.8 Further information** : Not available

## 15. Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1 Thailand Regulation**

**Ministry of Labour** : Not available

**Ministry of Industry** : Not available

**Ministry of Public Health** : Not available

**Ministry of Natural Resources and Environment** : Not available

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**Ministry of Transport** : Not available

**Further information** : Not available

## 15.1.2 Federal and State Regulations (Foreign country) :

**CLP Regulation** : Material is not listed

**OSHA** : Not available

**TSCA** : Not available

**SARA** : Not available

**REACH Regulation** : Material is not listed

## 16. Other information

### 16.1 References :

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

ACGIH : American Conference of Government Industrial Hygienists

NFPA : National Fire Protection Agency

NIOSH : National Institute for Occupational Safety & Health

OSHA : Occupational Safety & Health Administration

IARC : International Agency for Research on Cancer

LD50 : Lethal Dose 50%

CNS : Central Nervous System NTP National Toxicology Program

EC50 : Effective Concentration NOAEL No Observable Adverse Effect Level

EC50 : Effective Concentration 50% NOEC No Observed Effect Concentration

PEL : Permissible Exposure Limit

STEL : Short-term Exposure Limit

TLV : Threshold Limit Value

TWA : Time Weighted Average

### 16.3 Further information : Not available