

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043

Effective Date

4 February 2020

Revision 5

Page 3/11

ID-0117/20

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name : SBR 1502

Chemical Name : Styrene Butadiene copolymer

Molecular Formular : $(\text{CH}_2\text{-CH=CH-CH}_2\text{-CH}_2\text{-CH})_n$



Synonyms : -

1.2 Use : Product : Raw material for the production of tires

1.4 Manufacturer: BST Elastomers Company Limited

1.5 Address : 5/1, I-7 Rd. Maptaphut Industrial Estate, Muang District, Rayong 21150

Tel. : 0-3868-3314 Fax. : 0-3866-8-3315

2. HAZARD IDENTIFICATION

2.1 Classification of Substance or Mixture

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

Hazard classification : Not classifiable

2.2 Label Elements including precautionary statement :

Pictogram or Symbol : Not applicable

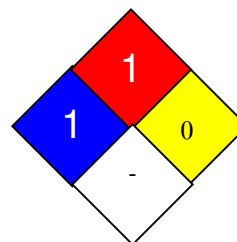
Signal word : Not applicable

Hazard statement : Not applicable

Precautionary statement : Not applicable

2.3 Other Hazards which do not result in classification (e.g. dust explosion hazard)

NFPA : Health = 1, Flammability = 1, Reactivity = 0



Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 Febuary 2020
Revision 5 Page 4/11 ID-0117/20

3.COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name : Styrene Butadiene Copolymer

Synonyms : Styrene Butadiene Rubber (SBR)

Name	CAS No.	%
Styrene Butadiene Copolymer	9003-55-8	100

4. First - aid measures

4.1 Description of first aid measures

Skin : Wash skin with soap and water.

Eye : 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 Potential acute health effects

Skin : May cause slight skin irritation .

Eye : 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.

4.3 Potential Chronic health effects.

Chronic effects : No known significant effects or critical hazards

Carcinogenicity : No carcinogenic substances as defined by IARC , NTP and/or OSHA.

4.4 Notes to physician : No specific treatment . Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media : Water, Foam, carbon dioxide, ABC fire extinguisher
power

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 February 2020
Revision 5 Page 5/11 ID-0117/20

5.2 Special Hazards arising from the substance or mixture

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 precautions for fire fighter :

- Firefighters 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 fire-fighters : Should wear appropriate protective equipment and SCBA with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution : No special measure required.

Protective equipment and emergency procedure : **Wear appropriate personal protective equipment**

6.2 Environmental Precaution : **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 Method 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.

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 February 2020
Revision 5 Page 6/11 ID-0117/20

7. Handling and Storage

7.1 Precaution 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 Condition 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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameter

Exposure limit value : No Data Available

8.2 Exposure Control

Occupational exposure controls :

ACGIH ; not data available

OSHA ; not data available

Thailand Regulation ; not data available

Technical measure : 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.

Environment exposure controls

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 February 2020
Revision 5 Page 7/11 ID-0117/20

Technical measure : Emission from ventilation or work process equipment should be check to ensure comply with the requirement of environmental protection legislation. In some case, fume scrubbers , filters or engineering modifications to the process equipment will be necessary to reduce emission to acceptable levels.

8.3 personal protection measure

Respiratory protection : Respirator with a dust and mist filter in case dust formation.

Protective Gloves : Employee should wear appropriate protective gloves to prevent contact with this substance.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information Appearance

Physical State : Solid (Rubber bales)

Colour : **Pale yellow**

Odour : **Odorless to weak aromatic**

9.2 Odour treshold limit : No data available.

9.3 pH : No data available.

9.4 Melting Point / Freezing point : No data available.

9.5 Initial boiling point and boiling range : No data available.

9.6 Flash point : Closed cup : **>300 °C**

9.7 Evaporation Rate : No data available

9.8 Flammability (Solid/Gas): **No, but the product will burn if ignited**

9.9 Upper Flammability/Explosive limits : No data available.

Lower Flammability/Explosive limits : No data available.

9.10 Vapor Pressure : No data available.

9.11 Vapor density : No data available.

9.12 Relative density : No data available.

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 Febuary 2020
Revision 5 Page 8/11 ID-0117/20

9.13 Solubility : Insoluble in water.

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

9.15 Specific Gravity (Water=1) : 0.94

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.

10. STABILITY AND REACTIVITY

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Stability: Stable **at ambient temperature and pressure.**

10.3 Possibility of hazardous reaction : **If ignited by excessive heat or open flame the product will burn.**

10.4 Conditions to Avoid : **Extreme temperature, 300-350°C (572-662°F) will cause thermal decomposition.**

10.5 Incompatible material: **Strong Oxidizers.**

10.6 Hazardous Decomposition Products : Carbon monoxide (from combustion), **Carbon Dioxide, partially oxidized hydrocarbon.**

11. TOXICOLOGICAL INFORMATION

11.1 Potential acute health effects

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

Eye : 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.

Chronic effects : No known significant effects or critical hazards

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 February 2020
Revision 5 Page 9/11 ID-0117/20

Carcinogenicity : No carcinogenic substances as defined by IARC , NTP and/or OSHA.

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: No data available.

12.2 persistence and Degradability : No data available.

12.3 Bioaccumulative Potential : No data available.

12.4 Mobility in soil : No data available.

12.5 Other Adverse effect : No data available.

The product is practically insoluble in water. No ecological problems are to be expected if the product is properly handling.

13. DISPOSAL CONSIDERATIONS

13.1 Product disposal information : Incinerate or landfill in accordance with applicable environment control regulation. Recycle if possible.

13.2 Container Disposal : Remove all packing for recover or waste disposal.

14. TRANSPORT INFORMATION

14.1 UN No. : Not available

14.2 UN Proper shipping name : Not available

14.3 Transport Hazard class : Not available

14.4 Packing group : Not available

14.5 Marine pollutants : Not available

14.6 Transport in bulk according to annex II of MARPOL 73/78 and the ICB code : Not available

14.7 Special precautions for user/Additional information :

Safety Data Sheet For SBR1502

Document Code S-PSM-BE-S01043 Effective Date 4 February 2020
Revision 5 Page 10/11 ID-0117/20

15. REGULATORY INFORMATION

15.1 Thailand Regulation

- Labour Protection Act B.E.2541 : Material is not listed
- Hazardous Substance Act B.E. 2535 : Material is not listed

15.2 CLP Regulation : Material is not listed

15.3 European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures, ; Material is listed in Annex VI

15.4 OSHA : No data available.

15.5 TSCA : No data available.

15.6 SARA : No data available

15.7 REACH Regulation : Material is not listed

15.8 EU Phrases :

Symbol : Xn Harmful

Risk Phrases : R43, May cause sensitization by skin contact

Safety Phrase : S2-24-37

16. OTHER INFORMATION

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

SARA : Superfund Amendments and Reauthorization Act.

GHS : Globally Harmonized System

TSCA : Toxic Substance Control Act

WHMIS : Workplace Hazardous Materials Information System

LD50 : Lethal Dose 50%

CNS : Central Nervous System NTP National Toxicology Program

EC50 : Effective Concentration NOAEL No Observable Adverse EffectLevel

Safety Data Sheet For SBR1502

Document Code	S-PSM-BE-S01043	Effective Date	4 Febuary 2020
Revision	5	Page	11/11

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

Remark

Additional Information Available from

Name: BST Elastomers Company Limited

Address: 5/1, I-7 Road. Maptaput Industrial Estate, Muang District, Rayong 21150

Tel. : +66(0) 3869-8698 Fax. : +66(0) 3869-8690