

SDS of BST SBR 0122

Document no. S-PSM-BE-S01048 Effective date September 13, 2024
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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name : Styrene Butadiene Rubber (SBR-Oil Grade) or SBR 0122

Chemical Name : Extended Oil Butadiene Styrene copolymer

1.2 Use : Product : Raw material for the production of tires. **Prohibited for use in the production of food -grade products.**

1.3 Manufacturer/Import : BST Elastomers Company Limited

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

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

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

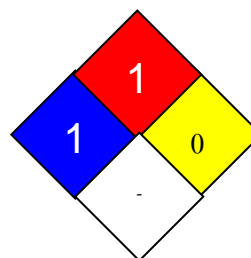
Precautionary statement : Not applicable

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

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

Note: 0 = Insignificant, 1 = slight, 2 = Moderate,

3 = High, 4 = Extreme



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name : Extended Oil Styrene Butadiene Copolymer

Synonyms : None

Name	CAS No.	%
Styrene Butadiene Copolymer	9003-55-8	73
TDAE OIL	64741-88-4	27

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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 : Dry chemical powder, CO₂, water spray or regular foam. For large fires, use water spray, fog or regular foam.

5.2 Special Hazards Arise from the Substance or Mixture

Hazards from the substance or mixture : Toxic and irritating gases/fumes may give off during burning or thermal decomposition

Hazardous decomposition Products : Thermal decomposition may release acrid smoke and irritation fumes

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5.3 Advice for Firefighters

Special Fire-Fighting Procedures : Keep people away. Isolate fire and deny unnecessary entry.

Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone.

Special Protective Equipment for Firefighters : Wear self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6.ACCIDENTAL RELEASE MEASURES

6.1 Personal Precaution : No special measure required

6.2 Environmental Precaution : 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.

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.

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- 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, in order to prevent crumbling of the bulk cargo, keep the

7.3 Incompatible Materials : No Data Available

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameter

Exposure limit value : None established

8.2 Exposure Control

Occupational exposure controls :

user operation generate dust , fume or dust use ventilation to keep exposure to airborne contaminants below the exposure limit.

Environment exposure controls

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information Appearance

Physical State : Solid (Rubber bales)

Colour : Greenish brown or dark brown

Odour : Characteristic (Slight)

9.2 Odour treshold limit : Not applicable

9.3 pH : Not applicable

9.4 Melting Point / Freezing point : Not applicable

9.5 Initial boiling point and boiling range : Not applicable

9.6 Flash point : Closed cup : Not applicable

9.7 Evaporation Rate : Not applicable

9.8 Flammability (Solid/Gas): Not applicable

9.9 Upper Flammability/Explosive limits : Not applicable

Lower Flammability/Explosive limits : Not applicable

9.10 Vapor Pressure : Not applicable

9.11 Vapor density : Not applicable

9.12 Relative density : Not applicable

9.13 Solubility : Insoluble in water.

9.14 partition Coefficient : n-octanol / water : Not applicable

9.15 Specific Gravity (Water=1) : 0.94

9.16 Auto ignition temperature : Not applicable

9.17 Decomposition temperature : Not applicable

9.18 Viscosity: Not applicable

9.19 Molecular Weight: Not applicable

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

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10.3 Possibility of hazardous reaction : Under normal condition storage and use , hazardous reaction will not occur.

10.4 Conditions to Avoid : Avoid temperatures above 200°C (392°F). Product contains residue unsaturation which can undergo exothermic oxidative degradation. Accumulation of product in areas exposed to elevated temperatures for extended periods in air may result in self-heating and auto ignition. Avoid direct sunlight.

10.5 Incompatible material: Avoid contact with oxidizing materials.

10.6 Hazardous Decomposition Products : Caused by smoldering and incomplete combustion toxic fumes mainly consisting of CO and CO₂ may be developed. Degradation products of the polymers and their additives may also be formed.

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 Delayed and immediate effects and chronic effects.

Skin corrosion/irritation : Not classifiable

Serious eye damage/eye irritation : Not classifiable

Respiratory sensitization : Not classifiable

Skin sensitization : Not classifiable

Carcinogenicity : Not classifiable as a carcinogen in NTP, IARC

IARC Group 3 (Not classifiable as to its carcinogenicity to human)

Germ cell mutagenicity : Not available

Reproductive toxicity : Not classifiable

Specific target organ toxicity (single exposure) : Not available

Specific target organ toxicity (repeated exposure) : Not available

Aspiration hazard : Not available

11.3 Acute Toxicity Level :

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Acute oral toxicity : Not available

Acute dermal toxicity : Not available

Acute inhalation toxicity : Not available

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 effect : Not 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 Disposal methods : The user of this product must properly characterize the waste/container generated from the use of this product in accordance with all applicable federal, state and/or local laws and regulations in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulation.

13.2 Precautions for disposal (including the disposal method of contaminated containers and packages) : The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities. Dispose of waste in accordance with local regulation.

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 MARPOL73/78 and the ICB code : Not available

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14.7 Special precautions for user/Additional information :

Type of extraordinary step in fire; F-A

Type of extraordinary step in spill; Not applicable

Local transport follows in accordance with Dangerous goods Safety Management Law.

Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

15. REGULATORY INFORMATION

15.1 Industrial Safety and Health Law

This product is not subject to the chemical for classification and labeling under ISHL Article 41.

This product is not subject to the chemical need monitoring workplace exposure limit under ISHL Article 42.

This product is not subject to the chemical specified the exposure limit under ISHL Article 42., Public notice 2008-2.

This product is not contain a chemical subject to regulated hazardous substances under Industrial Health Standards Article 166, Table 7.

15.2 Toxic Chemical Control Law

This product is not classified as Toxic chemical and Observational chemical under TCCA Article 2.3 and 2.4

15.3 Other regulation in domestic and foreign countries

Thailand Regulation

- **Labour Protection Act B.E.2541** : Material is not listed

- **Hazardous Substance Act B.E. 2535** : Material is not listed

POPs Management Law : Not applicable

Rotterdam Convention on Harmful Chemical & Pesticides : Not applicable

Stockholm Convention on Persistent Organic Pollutants : Not applicable

Montreal Protocol on Substances That Deplete the Ozone Layer : Not applicable

EU Classification : Not applicable

OSHA regulation (29CFR1910.119) : Not applicable

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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

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

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