

# Safety Data Sheet

Product name: Styrene Butadiene Rubber

CAS No.: 9003-55-8

Prepared in accordance with GB/T 16483, GB/T 17519

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

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### >Product identifier

- Product name: Styrene Butadiene Rubber
- CBnumber: CB7476376
- CAS: 9003-55-8
- EINECS Number: 618-370-2
- Synonyms: SBS,SBR

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

- Relevant identified uses: For R&D use only. Not for medicinal, household or other use.
- Uses advised against: none

### >Company Identification

- Company: Linyi Tuohui New Materials Co., Ltd.
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- Telephone: +86 176 6460 5089 (Manager Niu) / +86 130 4664 1786 (Manager Li)
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- Emergency telephone: +86 176 6460 5089

## SECTION 2: Hazards identification

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### >Classification of the substance or mixture

Not classified.

### >Label elements

#### Pictogram(s)

- Signal word  
No signal word

**Hazard statement(s)**

none

**Precautionary statement(s)****Prevention****Response****Storage****Disposal****>Other hazards**

no data available

### **SECTION 3: Composition/information on ingredients**

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**>Substance**

- Product name: Styrene Butadiene Rubber
- Synonyms: SBS,SBR
- CAS: 9003-55-8
- EC number: 618-370-2
- MF: C<sub>36</sub>H<sub>42</sub>X<sub>2</sub>
- MW: 474.72

### **SECTION 4: First aid measures**

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**>Description of first aid measures****If inhaled**

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

**Following skin contact**

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

**Following eye contact**

Rinse with pure water for at least 15 minutes. Consult a doctor.

**Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

**>Most important symptoms and effects, both acute and delayed**

no data available

**>Indication of any immediate medical attention and special treatment needed**

no data available

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**SECTION 5: Firefighting measures**

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**>Extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

**>Specific Hazards Arising from the Chemical**

no data available

**>Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6: Accidental release measures**

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**>Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**>Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

**>Methods and materials for containment and cleaning up**

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## SECTION 7: Handling and storage

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### >Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### >Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

## SECTION 8: Exposure controls/personal protection

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### >Control parameters

#### Occupational Exposure limit values

no data available

#### Biological limit values

### >Exposure controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### >Individual protection measures

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

## SECTION 9: Physical and chemical properties

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### >Information on basic physicochemical properties

- Physical stateslab/chunk
- Colour  
no data available
- Odour  
no data available
- Melting point/freezing point  
-59°C
- Boiling point or initial boiling point and boiling range  
145.2°C at 760 mmHg
- Flammability  
no data available
- Lower and upper explosion limit/flammability limit  
no data available
- Flash point  
31.1°C
- Auto-ignition temperature  
no data available
- Decomposition temperature  
no data available
- pH  
no data available
- Kinematic viscosity  
no data available
- Solubilitysolvents with solubility parameters between 7.7 and 9.4: soluble
- Partition coefficient n-octanol/water  
no data available
- Vapour pressure  
no data available
- Density and/or relative density  
1.04g/mL at 25°C

- Relative vapour density  
no data available
- Particle characteristics  
no data available

## **SECTION 10: Stability and reactivity**

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### **>Reactivity**

no data available

### **>Chemical stability**

### **>Possibility of hazardous reactions**

### **>Conditions to avoid**

### **>Incompatible materials**

### **>Hazardous decomposition products**

no data available

## **SECTION 11: Toxicological information**

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### **>Acute toxicity**

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

### **>Skin corrosion/irritation**

no data available

- >Serious eye damage/irritation**
- >Respiratory or skin sensitization**
- >Germ cell mutagenicity**
- >Carcinogenicity**
- >Reproductive toxicity**
- >STOT-single exposure**
- >STOT-repeated exposure**
- >Aspiration hazard**

no data available

## **SECTION 12: Ecological information**

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### **>Toxicity**

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

### **>Persistence and degradability**

no data available

### **>Bioaccumulative potential**

### **>Mobility in soil**

### **>Toxics Screening Level**

Due to a lack of available toxicity data, the ITSL for Styrene-butadiene polymer is being set at 0.1 µg/m<sup>3</sup> with annual averaging.

### **>Other adverse effects**

no data available

## SECTION 13: Disposal considerations

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### >Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## SECTION 14: Transport information

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### >UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### >UN Proper Shipping Name

### >Transport hazard class(es)

### >Packing group, if applicable

### >Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

### >Special precautions for user

no data available

### >Transport in bulk according to IMO instruments

no data available

## **SECTION 15: Regulatory information**

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### **>Safety, health and environmental regulations specific for the product in question**

#### **European Inventory of Existing Commercial Chemical Substances (EINECS)**

Not Listed.

#### **EC Inventory**

#### **United States Toxic Substances Control Act (TSCA) Inventory**

Listed.

#### **China Catalog of Hazardous chemicals 2015**

#### **New Zealand Inventory of Chemicals (NZIoC)**

#### **PICCS**

#### **Vietnam National Chemical Inventory**

#### **IECSC**

#### **Korea Existing Chemicals List (KECL)**

Listed.

## **SECTION 16: Other information**

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### **>Abbreviations and acronyms**

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

### **>References**

- IPCS - The International Chemical Safety Cards (ICSC), website:  
<http://www.ilo.org/dyn/icsc/showcard.home>

- HSDB - Hazardous Substances Data Bank, website:  
<https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:  
<http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website:  
<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>