



# Safety Data Sheet

## Section 1. Material/Company Identification

### Product Name

Styrene-Ethylene/Butylene-Styrene block copolymer (SEBS) .

**BALING SEBS YH-Series Products:**(This SDS covers all alphanumeric suffixes for the following products):

YH-501、YH-502、YH-503、YH-504、YH-505、YH-506、YH-506H、YH-567、YH-507H、YH-511、YH-515、YH-561、YH-602、YH-604、YH-610、YH-688、YH-501T、YH-502T、YH-503T、YH-504T、YH-561T、YH-602T、YH-604T

### Product Family

Thermoplastic Elastomer

### Manufacturer

Synthetic Rubber Division, Sinopec Assets Management Corporation Baling  
Petrochemical Yun Xi District, Yue Yang, Hu Nan Province, China

TEL: 86-730-8495817

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### Intended use

Polymer modified Adhesive Asphalt modification Sealing material  
Lubricant tackifier Filling material and sheath material of high-grade electric cable

## Section 2. Hazards Identification

### HMIS Hazard Class

Health: 0 Flammability: 1 Physical Hazards: 0

**Human Health Hazards:** None

**Environmental Hazards:** None

### Safety Hazards

Electrostatic charges may be generated during handling. Risk of self-ignition of bulk product above certain temperatures (Refer to Section 10). Specifically for milled grades and accumulated polymer dust: dust explosion could occur.

### Special Notes

These components are synthetic rubber, which are essentially non-toxic. Material is non-irritating. If polymer dusts are generated, they could scratch the eyes and cause minor irritation to the respiratory tract.

## Section 3. Composition

SUBSTANCES ARE NON-HAZARDOUS AND NOT CLASSIFIED  
CAS: 66070-58-4

#### **Section 4. First Aid Measures**

**Symptoms and Effects:** None

**Inhalation:** If dust is inhaled, obtain medical attention.

**Skin contact:** Flush skin with water.

**Eye contact:** Flush eyes with water.

**Ingestion:** None

**Advice to physicians:** Treat symptoms.

#### **Section 5. Fire Fighting Measures**

**NFPA 704 Hazard Class**

Health: 0 Flammability: 1 Instability: 0

**Specific Hazards**

Not flammable, but in case of fire, high heat will burn. Combustion products may include carbon monoxide and carbon dioxide.

**Extinguishing Media**

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media:** Water in a spray may disperse fire.

**Protective Equipment:** Full protective clothing and self contained breathing apparatus.

#### **Section 6. Accidental Release Measures**

**Personal Precautions:** Avoid generating dust.

**Environmental Precautions:** None

**Clean-up Methods - Small Spillage**

Shovel up and place in a labeled, sealable container for subsequent disposal as required by local, state, federal, international or country specific regulations.

**Clean-Up Methods - Large Spillage**

Transfer to a labeled, sealable container for product recovery or disposal as required by local, state, federal, international or country specific regulations.

**Protective Measures**

Wear appropriate personal protective equipment (refer to Section 8) when responding to spills.

**Spill Management**

Shovel and sweep up or use industrial vacuum cleaner. Proper disposal should be

evaluated based on the regulations of this material (refer to Section 13). Prevent entry into waterways, sewer, or confined areas.

## **Section 7. Handling and Storage**

### **Handling**

Avoid generation of dust. Take precautionary measures against static discharges, earth/ground all equipment. Do not breathe dust. Use local exhaust over processing area.

When processing SEBS products, maintain a fire watch if the material reaches 280 deg. C The temperatures listed are indicated only for safety reasons (risk of fire and product degradation) and are not recommended for processing.

Degradation of the polymer (polymer breakdown) will start at lower temperatures depending on the specific processing conditions. Therefore, operating below these temperatures does not guarantee the absence of product degradation.

Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors or in high airborne dust concentrations. All solid forms of SEBS can accumulate an electrostatic charge when rubbed, chafed or abraded and can charge unearthed components. Considering the risks of electrostatic discharges handling the products in potentially flammable atmospheres should be evaluated carefully. Suitable precautions should be taken at all times, in particular when emptying bags or other packaging. Earth/Ground equipment to dissipate charges that may develop.

### **Storage**

Keep container dry. Keep in a cool, well-ventilated place. All SEBS contain an antioxidant to aid in stabilizing the polymer over its recommended use and storage conditions. Exposure to direct sunlight or elevated temperatures over prolonged periods of time consumes the antioxidant at an increased rate and may lead to self heating and thermal degradation. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags.

**Storage Temperatures:** Ambient.

### **Product Transfer**

Take precautionary measures against static discharge. Earth/Ground all equipment.

### **Other Information**

SEBS may accumulate static charge during transport, handling and processing. Reducing the velocity of material transfer will reduce the likelihood that a charge will be created.

## **Section 8. Exposure Controls/Personal Protection**

### **Occupational Exposure**

In the absence of occupational exposure standards for this product, it is recommended that the following be adopted:

**Nuisance Dust TLV:** TWA (8 h) 10 mg/m<sup>3</sup>, If dust is generated.

**Engineering Control Measures:** Use local exhaust ventilation.

**Respiratory Protection**

Where local exhaust ventilation is not practicable and odors are detected use a negative pressure half face respirator equipped with a cartridge designed to protect against organic vapors and if dust is also present a particulate pre-filter should also be used. For high airborne dust concentrations use a cartridge designed to be used against nuisance dust.

**Hand Protection:** Cloth gloves if desired.

**Eye Protection:** Dust-tight mono goggles.

**Body Protection:** Standard issue work clothes.

## Section 9. Physical and Chemical Properties

**Physical State:** Solid

**Color:** Clear or White

**Odor:** Essentially odorless

**Flash Point:** None

**Density:** Typical between 880-950 kg/m<sup>3</sup> at 20 Deg. C

**Specific Gravity:** <1

**Bulk density :** Typical 300-450 kg/m<sup>3</sup> at 20 Deg. C

**Solubility (In Water):** Insoluble

**N-octanol/water partition coefficient (log Pow):** Not applicable

**All other properties are not applicable.**

**Residual monomers**

analysis of representative products indicate styrene, and 1,3-butadiene are not present at the detection limit of our instrumentation.

## Section 10. Reactivity and Stability

**Stability:**

Stable under ambient conditions. Oxidizes exothermically above ambient temperature.

**Conditions to Avoid**

Avoid contact with strong oxidizing agents. Accumulation of product in areas exposed to elevated temperatures for extended periods in air may result in self-heating and auto ignition. Avoid elevated temperatures in storage for prolonged periods of time.

**Hazardous Decomposition Products**

Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions.

None under ambient conditions. Although highly dependent on temperature and

environmental conditions, a variety of thermal decomposition products may be present if the product is over heated, is smoldering or catches fire. Typical decomposition products are ultimately oxides of carbon.

## **Section 11. Toxicological Information**

### **Basis for Assessment**

Toxicological data has not been determined for this product. Information is based on similar products.

**Acute Toxicity Oral:** Expected to be of low toxicity, no data available.

**Acute Toxicity Dermal:** Expected to be of low toxicity, no data available.

**Acute Toxicity Inhalation:** No data available.

**Skin Irritation:** Not expected to be irritating.

**Eye Irritation:** Not expected to be irritating.

**Skin Sensitization:** Not expected to be a skin sensitizer.

**Repeated Dose Toxicity:** Repeated exposure does not cause toxic effects.

**Mutagenicity:** No data available.

This product is not classified by the following: The International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP).

## **Section 12. Ecological Information**

### **Basis for assessment**

No ecotoxicological data has been generated for this product. The information below is based on components and on similar products.

**Mobility:** Floats on water. Remains on surface of soil.

**Degradability:** Not expected to be inherently biodegradable.

**Bioaccumulation:** Not expected to bioaccumulate.

**Acute Toxicity – Fish:** Expected to be practically non toxic.

**Acute Toxicity – Bacteria:** Expected to be practically non toxic.

**Sewage Treatment:** Expected to be practically non toxic.

## **Section 13. Disposal Considerations**

### **Product Disposal**

Recover or recycle if possible, otherwise; incinerate or use a licensed landfill.

### **Local Legislation**

Consult local, state, federal, international or country specific regulations as appropriate.

## **Section 14. Transport Information**

### **International Air Transportation Association Classification (IATA)**

This product is not classified.

### **International Maritime Organization (IMDG)**

This product is not classified.

**UN, IMO, ADR/RID, ICAO Code:** This product is not dangerous.

**US Department of Transportation (DOT) 49CFR 171-180**

This product is not classified as hazardous.

## **Section 15. Regulatory Information**

### **INTERNATIONAL LEGISLATION**

**GLOBAL CHEMICAL INVENTORY STATUS – All of the substances are acceptable for use under:**

CHINA – Inventory of Existing Chemical Substances (IECSC)

CANADA – (CEPA) Domestic Substances List (DSL)

EU – European Inventory of Existing Chemical Substances (EINECS)

JAPAN – Inventory of Existing and New Chemical Substances (IENCs)

KOREA – Existing Chemicals Inventory (KECI)

USA – Toxic Substances Control Act (TSCA)

**OSHA Hazard Communication Standard 29 CFR 1910.1200:**Not classified.

**CANADA Workplace Hazardous Materials Information System (WHMIS)**

This product is NOT a WHMIS controlled product.

**EU Regulation (EC) 1907/2006 REACH:**

SEBS Polymers are exempted from registration and evaluation.

**EU Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS)** in electrical and electronic equipment: Not regulated.

**EU Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)** Not regulated.

**EU Directive 91/689/EEC Hazardous Waste:** Not regulated.

**EU Directive 2037/2000 Ozone Depleters (Class I or II) as defined in Montreal Protocol:** Not regulated.

### **International Conventions**

**Chemical Weapons, Rotterdam PIC (Prior Informed Consent), Persistent Organic Pollutants (POP), Drug Precursors:** Not regulated.

**Food and Drug Administration (FDA) 21 CFR 170-199**

Products on this SDS may conform with uses under food contact regulations as an article or a component of an article intended for food contact.

## **Section 16. Other Information**

**Date of Issue:** March 5, 2020

**References**

GB/T16483-2008 Safety data sheet for chemical products-Content and order of sections

GB 13690-2009 General rule for classification and hazard communication of chemicals

**Disclaimer**

The information in this document is based on our current knowledge and is intended to describe the product for the purposes of Health, Safety and Environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Advice in this document relates only to the product as originally supplied. Where other ingredients are added in the processing of this product, advice should be sought on their safe handling and use.