

# 化学品安全技术说明书

## Safety Data Sheet

### 第 1 部分 化学品及企业标识

#### Section 1. Material/Company Identification

产品名称

**PRODUCT NAME**

苯乙烯-丁二烯-苯乙烯嵌段共聚物(Styrene - Butadiene-Styrene Block copolymer) **SBS**。

**DZBH SBS 系列产品**(注：该安全技术说明书包含下列所有数字及后缀的产品)：

**DZBH SBS Series Products:**(This SDS covers all alphanumeric suffixes for the following products):

DZ-4308、DZ-4252、DZ-4952、DZ-4972、DZ-4918、DZ-4815、DZ-4971、DZ-4185

产品商品名

**PRODUCT FAMILY**

热塑性弹性体 Thermoplastic Elastomer

企业名称

**Manufacturer**

东展北化新材料科技服务有限公司

DZBH NEW MATERIALS TECHNOLOGY SERVICES CO., LIMITED

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预期用途

**intended use**

塑料改性 Plastics modification、沥青改性 asphalt modification、粘合剂 Adhesive、制鞋 shoe making

### 第 2 部分 危险性概述

#### Section 2. Hazards Identification

HMIS危害级别

**HMIS Hazard Class**

健康: 0; 可燃性: 1; 身体危害: 0

Health: 0 Flammability: 1 Physical Hazards: 0

人体健康危害:无。

**Human Health Hazards:**None

环境危害:无。

**Environmental Hazards:**None

### 安全危害

#### **Safety Hazards**

在处理过程中可能会产生静电。大量的产品在一定温度上可能发生自燃（请参照第10部分）。

Electrostatic charges may be generated during handling. Risk of self-ignition of bulk product above certain temperatures (Refer to Section 10).

### 特别注意

#### **Special Notes**

这些材料是合成橡胶，本质上是无毒的。无刺激性。如果有聚合物粉末产生，可能会刮伤眼睛和轻微刺激呼吸道。

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.

## 第 3 部分 成分/ 组成信息

### **Section 3. Composition**

物质无毒害，未被归类为有害物。

SUBSTANCES ARE NON-HAZARDOUS and NOT CLASSIFIED

CAS: 9003-55-8

## 第 4 部分 急救措施

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

症状和影响:无。

**Symptoms and Effects:**None

吸入:如吸入粉尘，立即就医。

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

皮肤接触:用大量清水冲洗皮肤。

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

眼睛接触:用大量清水冲洗眼睛。

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

食入:无。

**Ingestion:** None

给医生的建议: 针对症状治疗。

**Advice to physicians:** Treat symptoms.

## 第 5 部分 消防措施

### Section 5. Fire Fighting Measures

**NFPA 704 危害级别**

**NFPA 704 Hazard Class**

健康: 0; 可燃性: 1; 反应性: 0

**Health: 0; Flammability: 1; Instability: 0**

危险特性:非易燃物, 但遇明火、高热可燃。燃烧产物可能含CO和CO<sub>2</sub>。

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

灭火剂: 可用泡沫、喷雾或水雾灭火器进行扑救。注意干粉、CO<sub>2</sub>灭火器和砂土仅可用于小火的扑救。

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

不适合的灭火剂:喷射状的水可能会导致火势扩散。

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

防护设备:全身穿防护服, 佩戴独立式呼吸器。

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

## 第 6 部分 泄漏应急处理

### Section 6. Accidental Release Measures

个人应注意事项:避免产生粉尘。

**Personal Precautions:** Avoid generating dust.

环保应注意事项:没有特别的措施。

**Environmental Precautions:** None

清理方法--少量泄漏

用铲装到一个带有标签的密封容器中，然后根据当地、省、国家或国际上专门法规进行安全处理。

**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.

清理方法--大量泄漏

转移到带有标签、密封的容器中回收或根据当地、省、国家或国际上专门法规进行安全处理。

**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.

保护性措施:处理泄漏时须穿戴适当的个人防护装置（参考第8部分）。

**Protective Measures**

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

泄漏处理

发生泄漏时可铲除和清扫，或用工业真空吸尘器进行清理。须根据该化学品的废弃处理规定（参考第13部分）进行后续处理。防止泄露物进入水道，下水道或其它受限区域。

**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.

## 第 7 部分 操作处置与储存

### Section 7. Handling and Storage

操作注意事项

在操作过程中应避免产生粉尘。所有设备接地以防止产生静电。同时要避免吸入粉尘、加热产品产生的烟或蒸汽。在加工区域的上方应安装通风装置。

**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.

在加工SBS产品的时候，温度应控制在220℃以下，当达到上述临界温度时，应保持警惕防止着火。列出上述温度仅仅是出于安全考虑（防止火灾和产品降解），不推荐在上

述温度下加工。

When processing SBS products, maintain a fire watch if the material reaches 220 deg. C The temperatures listed are indicated only for safety reasons (risk of fire and product degradation) and are not recommended for processing.

在特定的加工条件下，聚合物可能会在比上述更低的温度下发生降解（聚合物分解），因此在上述温度之下加工不能保证产品不会发生降解。

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.

在有挥发性气体、易燃性气体或高粉尘浓度的环境中使用产生的静电积累可能导致火灾。所有SBS固体受摩擦可能积累静电并可能使未接地的部件带电。介于上述静电风险，应谨慎评估在可燃环境中对SBS的处理。应随时采取适当预防措施，特别是在清空包装时。可使设备接地消散静电。

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 SBS 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.

#### 储存注意事项

保持容器干燥，低温通风储存。所有SBS含少量抗氧剂，使聚合物在推荐的使用和储存期间保持稳定。长时间阳光直射或接触其它热源或火源会加速消耗抗氧剂，并可能导致自燃和热降解。避免在压力或高温储存以减少结块。不要堆叠可调式联运散货集装箱或袋包托盘。

#### Storage

Keep container dry. Keep in a cool, well-ventilated place. All SBS 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.

储存温度:室温。

**Storage Temperatures:**Ambient.

产品转运:所有设备接地以防止产生静电。

#### Product Transfer

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

其他信息

SBS在运输、处理和加工过程中可能积累静电。降低材料的转运速度可以降低积累静电的可能性。

#### **Other Information**

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

## 第 8 部分 接触控制/个体防护

### Section 8. Exposure Controls/Personal Protection

职业接触标准:该产品目前还没有职业接触标准，我们推荐采用下面的标准：

#### **Occupational Exposure**

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

粉尘:如有粉尘产生，TWA(8h) 10mg/m<sup>3</sup>

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

工程控制:采用通风装置。

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

呼吸系统防护

在没有通风装置的地方有气味产生时，使用带有机蒸汽过滤功能的负压半脸呼吸器防止吸入有机气体，若同时有粉尘存在，呼吸器必须带颗粒预滤功能。对高浓度的粉尘，使用筒式过滤器。

#### **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.

手 防 护:如果需要戴上布手套。

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

眼睛防护:使用防尘单目护目镜。

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

身体防护:采用标准的工作服。

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

## 第 9 部分 理化特性

### Section 9. Physical and Chemical Properties

外观与性状：固体

**Physical State:** Solid

颜色：无色或白色

**Color:** Clear or White

气味：基本无味

**Odor:** Essentially odorless

闪点(°C)：无

**Flash Point:** None

密度：20°C时典型值为880-950 kg/m<sup>3</sup>

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

比重：< 1

**Specific Gravity:** <1

堆积密度：20°C时典型值为300-550 kg/m<sup>3</sup>

**Bulk density :** Typical 300-550 kg/m<sup>3</sup> at 20 Deg. C

溶解性（水中）：不溶于水

**Solubility (In Water):** Insoluble

辛醇/水分配系数的对数值：不适用。

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

其它特性不适用。

**All other properties are not applicable.**

残留单体

样品分析表明苯乙烯和丁二烯的含量均低于仪器检测范围。

**Residual monomers**

Analy SBS of representative products indicate styrene and butadiene are not present at the detection limit of our instrumentation.

## 第10 部分 稳定性和反应活性

### Section 10. Reactivity and Stability

稳定性:在环境温度下稳定。但在高于环境温度时发生氧化放热。

**Stability:**

Stable under ambient conditions. Oxidizes exothermically above ambient temperature.

避免接触的条件

避免跟强氧化剂接触。长期曝露在高温下将使产品聚集，导致自热或自燃。避免在高温下长期储存。

**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.

分解产物危害

在正常加工温度和条件下不会产生有害气体。

**Hazardous Decomposition Products**

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

在常温下无分解产物。尽管在很大程度上取决于温度和环境条件，但如果材料过热、闷烧或着火则可能产生多种热分解产物，最终的典型降解产物为碳氧化物。

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.

## 第11 部分 毒理学资料

### Section 11. Toxicological Information

评价基础:该产品的毒理学数据没有明确的测定。相关的信息是来自相似产品的毒理学知识。

**BaSBS for Assessment**

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

急性口服毒性:该产品为低毒性，无数据。

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



急性皮肤毒性:该产品为低毒性, 无数据。

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

急性呼吸毒性:无数据。

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

皮肤刺激性:没有刺激。

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

眼睛刺激性:没有刺激。

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

皮肤刺激性:没有刺激。

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

反复毒性试验:反复暴露不会导致中毒。

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

致突变性:无数据。

**Mutagenicity:**No data available.

该产品未被下述机构归类: 含国际癌症研究所 (IARC), 美国国家毒理学计划(NTP)。

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

## 第12 部分 生态学资料

### Section 12. Ecological Information

评价基础

该产品的生态学数据没有明确的测定。以下相关信息来自相似成分和产品的生态学知识。

#### **BaSBS for assessment**

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

移动性:漂浮在水面上。保持在土壤表面。

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

降解性:一般不会降解。

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

生物富集:不会发生生物富集。

**Bioaccumulation:**Not expected to bioaccumulate.

生态毒性—鱼类:一般没有毒性。

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

生态毒性—细菌:一般没有毒性。

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

污水处理:一般没有毒性。

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

## 第13 部分 废弃处置

### Section 13. Disposal Considerations

废弃物处置

可能的话对废物进行回收或再循环利用，否则进行燃烧或按规定掩埋。

#### **Product Disposal**

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

当地法规:参照当地、省、联邦、国际或国家的法规。

#### **Local Legislation**

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

## 第14 部分 运输信息

### Section 14. Transport Information

国际航空运输协会（IATA）分类:未被划分为危险货物。

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

This product is not classified.

国际海运组织（IMDG）分类:未被划分为危险货物。

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

This product is not classified.

UN, IMO, ADR/RID, ICAO 编码:未被划分为危险货物。

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

美国交通部分类（DOT）49 CFR Parts 171-180:未被划分为危险货物。

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

This product is not classified as hazardous.

## 第15 部分 法规信息

### Section 15. Regulatory Information

国际法规

全球化学品目录状态—所有物质被下述法规接受使用:

#### **INTERNATIONAL LEGISLATION**

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

中国—现有化学物质名录 (IECSC)

CHINA – Inventory of Existing Chemical Substances (IECSC)

加拿大— (CEPA) 国内物质目录 (DSL)

CANADA – (CEPA) Domestic Substances List (DSL)

欧盟—欧洲现有化学物质名录 (EINECS)

EU – European Inventory of Existing Chemical Substances (EINECS)

日本—现有及新化学物质名录 (IENCS)

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

韩国—现有化学品目录 (KECI)

KOREA – Existing Chemicals Inventory (KECI)

美国—有毒物质控制法案 (TSCA)

USA – Toxic Substances Control Act (TSCA)

**OSHA**危害公示标准 **29FR 1910.1200**:未归类。

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

加拿大—工作场所危险品信息系统(WHMIS):该产品不属于受限产品。

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

This product is NOT a WHMIS controlled product.

欧盟法规 (EC) **1901/2006 REACH**:SBS聚合物免于登记和评估

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

SBS Polymers are exempted from registration and evaluation.

欧盟有害物质限用指令 **2002/95/EC (RoHS)** 中电气与电子设备:未规定。

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

欧盟废弃电气与电子设备指令 **2002/96/EC (RoHS)** 中电气与电子设备 (**WEEE**) :  
未规定。

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

欧盟有害废弃物指令 **91/689/EEC**:未规定。

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

欧盟指令 **2037/2000**消耗臭氧物质 (**I类和II类**) 根据蒙特利尔议定书:未规定。

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

国际公约

化学武器, 鹿特丹预先通知同意程序 (**PIC**), 持久性有机污染物 (**POP**), 毒品前驱体  
未规定。

**International Conventions**

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

食品和药物管理局(**FDA**) **21 CFR 170-199**

当符合食品接触法规时, 此安全技术说明书涵盖的产品可能用于与食品接触的物品或其成分。

**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.

## 第16 部分 其他信息

### Section 16. Other Information

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参考文献

**References**

GB/T16483-2008 化学品安全技术说明书 内容和项目顺序( Safety data sheet for chemical products-Content and order of sections)

GB 13690-2009 化学品分类和危险性公示 通则 ( General rule for classification and hazard communication of chemicals )

## 免责声明

本说明书中的信息是基于我们现有知识所提供的，是真实及准确的，仅用于健康、安全和环境要求的产品描述。因此我们不对产品的任何特殊性质作保证。本说明书中的建议仅仅是针对本产品的原始形态。如果在加工过程中添加了其它成分，则应寻求这些添加成分的安全使用和处理信息。

## 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.