STYRENE-BUTADIENE-STYRENE SBS

1. Chemical Product and Company Identification

Product Name: SBS
Product Code: S.B.S.
Chemical Name: Styrene Butadiene Copolymer **Supplier:** BosTech Polymer

2. Composition / Information on Ingredients

Common Chemical Name: Styrene-Butadiene-Styrene Thermoplastic Elastomer **Formula:** [-CH2CH(C6H5)-]x(-CH2CHCHCH2-)y
Generic Name: Elastomer
CAS Number: 9003-55-8
Synonyms: SBS
Hazardous Ingredients: None

3. Hazards Identification

Health Hazard	Specific Hazards	Main Symptoms
Lung Toxin	When / if inhaled, fines may causes mechanical irritation of the respiratory tract	Coughing
Skin Hazard	Material is unlikely to cause irritation but if contact with molten material occurs, treat as for thermal burn	Thermal burns (see section 4)
Eye Hazard	Fines can cause mechanical irritation	Red eyes
Ingestion	No hazard	N/A

The material is not classified as being a dangerous preparation according to EC Directive 88/379 and the subsequent amendments. See also Section 15.

R(isk) phrases N/A

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4. First Aid Measures

Inhalation: Move person to fresh air and seek medical attention if symptoms persist.
Skin Contact: Cool molten material with cold water. Do not remove hardened polymer from skin. **Eye Contact:** Flush thoroughly with water.
Ingestion: Rinse mouth and obtain medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, foam, CO2, dry chemical powder. **Hazards:** Burning may release carbon monoxide and irritating organic vapors. **Protective Equipment:** Self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Sweep or shovel spilled material into suitable containers. Avoid dust formation and use grounded equipment where dust is present.

7. Handling and Storage

Handling: Ensure material is dry before processing. Avoid dust generation. **Storage:** Store in cool, dry area away from sunlight, moisture, and heat sources. **Electrostatic Precautions:** Ground storage silos and transport systems.

8. Exposure Controls / Personal Protection

Respiratory Protection: Use dust mask if TLV exceeded.
Hand Protection: Heat-resistant gloves for molten material.
Eye Protection: Face shield or safety goggles during hot processing. **TLV:** 10 mg/m³ total dust, 5 mg/m³ respirable dust.

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9. Physical and Chemical Properties

Appearance: White powder or porous pellets
Odor: Odorless
Density: 930–950 kg/m³
Solubility: Insoluble in water
Flash Point: 288°C
Auto Ignition Temperature: 440°C

10. Stability and Reactivity

Stable under normal conditions. Avoid temperatures above 250°C, UV exposure, and strong oxidizing agents. Dust fines may create explosive atmospheres.

11. Toxicological Information

No significant acute or chronic toxicity reported. No sensitization or carcinogenic effects identified.

12. Ecological Information

Material is water insoluble and considered non-toxic to aquatic life. High UV degradability.

13. Disposal Considerations

Dispose of material in accordance with local environmental regulations through approved waste management procedures.

14. Transport Information

Not classified as dangerous for transport under IMDG, IATA, RID/ADR regulations.

15. Regulatory Information

No labeling required under EC Directive 88/379/EEC. Product is not classified as dangerous.

16. Other Information

Recommended Applications: Bitumen modification, viscosity modification, sealants.

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The information contained in this document is believed to be accurate and reliable. However, BosTech Polymer makes no warranty regarding the suitability of the product for any specific application. Users are responsible for evaluating the product under their own operating conditions.

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