

# Material safety Data Sheet

Effective Date: November 7, 2006

Document NO. : I-MF4-CO-S012

## 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name : BSTE BR<sub>1220</sub>

Chemical Name : Butadiene Copolymer

Molecular Formular : (CH<sub>2</sub>-CH=CH-CH<sub>2</sub>-)<sub>n</sub>

Synonyms : -

1.2 Use : Product

1.3 Max. Quantity Storage : -

1.4 Manufacturer/Import : BST Elastomers Company Limited

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

Tel. : 0-3868-3314 Fax. : 0-3866-8-3315

## 2. HAZARD IDENTIFICATION

2.1 Route to body : Inhalation, eye, skin and ingestion.

2.2 Target

- Eye : Treat as foreign body.
- Skin : Not considered a hazard.
- Inhalation : Not hazardous under normal ambient condition.
- Ingestion : Not consider a hazard.

2.3 Effect of Short-term overexposure : No data available.

2.4 Effect of Long-term overexposure : No data available.

2.5 TLV.TWA : 1 ppm.

## 3.COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Percent	U.N. No.	CAS.No.	Safety Standard	
				TLV (PPM.)	LD50 (mg/kg)
Butadiene Copolymer	100	-	9003-17-2	1	-

Carcinogen : Not applicable.

#### 4. First - aid measures

**4.1 Skin** : Seek medical aid irrigate with clean water, obtain medical attention.

**4.2 Eye** : No data available.

**4.3 Inhalation** : Seek medical aid.

**4.4 Ingestion** : Seek medical aid.

**4.5 Additional data for first aid** : -

#### 5. FIRE FIGHTING MEASURES

**5.1 Flash Point** : No data available.

**5.2 Explosion Limits** :

- LEL% (v/v) : No data available. - UEL% (v/v) : No data available.

**5.3 Auto ignition** : No data available.

**5.4 Extinguishing Media** : Water, all purpose (ABC) dry chemical.

**5.5 Decomposition temp.** : 400°C approx.

**5.6 Hazardous decomposition Products** : Carbon monoxide (from combustion)

**5.7 Special Fire Fighting Procedures** : Breathing apparatus should be available for use by authorized personnel. Slight fire hazard when exposed to heat or flame. Move container from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Dike fire – control water for later disposal. Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

**5.8 Unusual Fire and Explosion Hazards** : Will burn with emission of dense smoke, combustion products will include toxic gases. (e.g. carbon monoxide)

**5.9 Hazard class** : No data available.

**5.10 NFPA Hazard Classification** : No data available.

#### 6. ACCIDENTAL RELEASE MEASURES

**6.1 Sweep up or pick up.** May be repacked or recovery.

**6.2 Disposal method** : Approved landfill tips or incinerated under the approved condition in accordance with the requirements of authorities.

#### 7. Handling and Storage

**7.1** Store away from heat and direct sunlight in a cool dry area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Ventilation** : Provide local exhaust ventilation. Ventilation equipment should be explosion-proof if explosive concentrations of dust, vapor or fume are present.

**8.2 Respiratory protection** : Powered air-purifying respirator with a dust and mist filter. And self-contained breathing apparatus for firefighting and other immediately dangerous to life or health conditions.

**8.3 Protective Gloves** : Employee should wear appropriate protective gloves to prevent contact with this substance.

**8.4 Eye Protection** : Employee must wear splash-proof or dust resistant safety goggles to prevent eye contact with this substance.

**8.5 Other Protective Equipment** : Employee should wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Boiling Point** : No data available.

**9.2 Melting Point** : No data available.

**9.3 Vapor Pressure** : No data available.

**9.4 Solubility in Water** : Insoluble.

**9.5 Specific Gravity (water=1)** : 0.90

**9.6 Evaporating Rate** : No data available.

**9.7 Apparent Color and odor** : White bale with slight odor possible.

**9.8 pH** : No data available.

**9.9 Molecular Weight** : No data available.

## 10. STABILITY AND REACTIVITY

**10.1 Stability**: Stable. (Decompose at 400°C)

**10.2 Condition to Avoid** : No data available.

**10.3 Incompatibilities** : No data available.

**10.4 Hazardous Polymerization** : Will not occur.

**10.5 Hazardous Decomposition Products** : Carbon monoxide (from combustion)

## 11. TOXICOLOGICAL INFORMATION

**11.1 Carcinogen Status** : Chemical listed as carcinogen or potential carcinogen :

- National Toxicology Program :No
- ISRC Monographs : No.
- OSHA : No.
- IARC Monographs : No.

**11.2 Acute Toxicity Level** : No data available.

**11.3 Target Effects** : No data available.

## 12. ECOLOGICAL INFORMATION

**12.1 Acute Aquatic Toxicity** : No data available.

**12.2 Degradability** : No data available.

## 13. DISPOSAL CONSIDERATIONS

**13.1** Observe all federal, state and local regulations disposing of this substance.

## 14. TRANSPORT INFORMATION

**14.1** Cover the substance with sheets in order to prevent mingling of foreign matters, wetting, and exposure to the direct sun rays.

**14.2** In case of bulk cargoes, in order to prevent crumbling, keep the height as low as possible, and fix it firmly in place.

## 15. REGULATORY INFORMATION

**15.1 CERCLA SECTION 103 (40 CFR 302.4)** : None

**15.2 SARA SECTION 302 (40 CFR 355.30)** : None

**15.3 SARA SECTION 304 (40 CFR 355.40)** : None

**15.4 SARA SECTION 313 (40 CFR 372.65)** : None

## 16. OTHER INFORMATION

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**Definition** :

**ACGIH** : American Conference of Governmental Industrial Hygienists

**IARC** : International Agency for Research on Cancer  
**OSHA** : Occupational Safety and Health Administration  
**TLV** : Threshold Limit Value  
**TWA** : Time-weighted average  
**SARA** : Superfund Amendments and Reauthorization Act  
**CERCLA** : Comprehensive Environmental Response, Compensation, and Liability Act.

### **References**

1. MSDS of Nippon Zeon Co., Ltd.

### **Remark**

Additional Information Available from

Name: BST Elastomers Company Limited

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