



山东瑞丰高分子材料股份有限公司  
SHANDONG RUIFENG CHEMICAL CO., LTD.

## MBS IMPACT MODIFIER

LB-717/LB-730/LB-136/LB-564/LB-156/LB-166

### Material Safety Data Sheet

Date: 01/01/11

#### 01: Product Identification and Use

**Manufacturer:** Shandong Ruifeng Chemical Co., Ltd.

**Contact:** Yiyuan Economic Development Zone, Shandong Province

Emergency Tel: +86 533 3231093

**Product Name:** MBS IMPACT MODIFIER LB-717/LB-730/LB-136/LB-564/LB-156/LB-166

**Product Use:** Impact Modifier for PVC

**Chemical Formula:**  $(C_8H_8 \cdot C_5H_8O_2 \cdot C_4H_6)_x$

**Molecular Weight:** Mixture

**Chemical Family:** Resin

#### 02: Hazards Identification

**Hazard classification :** Not available

##### Allocation label elements

Pictogram and symbol : Not applicable

Signal word : Not applicable

Hazard statement : Not applicable

Precautionary statements

- Prevention : Not applicable
- Response : Not applicable
- Storage : Not applicable
- Disposal : Not applicabl

#### 03: Composition/Information on Ingredients

**Component:** Methyl methacrylate- Butadiene-Styrene Copolymer % :97-99

**CAS Registry Number:** 25053-09-2

**Individual residual monomers** None

##### EU Classification

Classification: Not classified Risk phrases : Not classified Safety phrases : Not classified



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## 04: First Aid Measures

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**Inhalation:** Move subject to fresh air.

**Eye contact:** Flush eyes with water. Consult a physician if irritation Persists.

**Skin contact:** Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

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## 05: Fire Fighting Measures

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### **Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media:

-Small fire: CO<sub>2</sub>, water spray, Dry chemical, regular foam.

-Large fire: Use plenty of water with form or fine water spray.

Unsuitable extinguishing media: Do not use a solid stream of water.

In case of major fire and large quantities: Move containers from fire area if you can do it without risk.

Tank/trailer/train truck fire:

-Cool containers with flooding quantities of water until well after fire is out.

-Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

-ALWAYS stay away from tanks engulfed in fire.

### **Specific hazards arising from the chemical**

Thermal decomposition products : Carbon Oxides

Fires and an explosion. It could be a slight fire hazard. Mixtures with mist and air may ignitable or explosive if it is higher than limited value.

### **Special protective equipment and precautions for fire-fighters**

Wear positive pressure self-contained breathing apparatus (SCBA).

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

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## 06: Accidental Release Measures

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### **Personal precautions**

Wear compatible, chemically resistant gloves. Use personal protective equipment. Avoid breathing dust. Material can create slippery conditions. Remove all sources of ignition. Ensure adequate ventilation.



### **Environmental precautions and protective procedures**

Atmosphere : Provide local exhaust ventilation system.

Land : Make an embankment for further processing.

Underwater : Prevent entry into waterways, sewers, basements or confined areas.

### **The methods of purification and removal**

Small spill

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.

Large spill

- When spilled over limited quantities, inform central government and local self-government.
- Keep unauthorized personnel away.

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## **07: Handling and Storage**

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### **Precautions for safe handling**

Wash thoroughly after handling. Wear suitable protective clothes and face shield. Do not eat, drink or smoke in product area. Use certificated protective equipment.

Advice on protection against fire and explosion: Avoid dusting. Under dusty conditions avoid all sources of ignition, including sparks and static electricity.

### **Storage conditions**

Store at room temperature in the original container. Keep away from heat and sources of ignition. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Avoid all ignition sources. This material is not hazardous under normal storage conditions. However, all materials of this type release some monomer vapors or gases when stored for prolonged periods at elevated temperatures

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## **08: Exposure controls/Personal protection**

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### **Exposure Limits**

US (NIOSH/OSHA AGGIH):

- NIOSH- Not applicable
- OSHA- Not applicable
- ACGIH- Not applicable

Biological Exposure Index: Not applicable

### **Appropriate engineering controls**



Provide local exhaust ventilation or other engineering controls to keep concentration of airborne under threshold limit value. Minimize dust generation. Provide blaster resistance equipment at ventilation system if when explosive risk. Check legal suitability of exposure level.

### **Personal protective equipment**

Respiratory protection

-Respiratory protection: Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment.

Eye protection

-Wear facepiece with goggles to protect from severe scattering dust.

-An eye wash unit and safety shower station should be available nearby work place.

Hand protection

-Wear appropriate chemical-resistant gloves that protect chemicals directly.

Body protection

-Wear appropriate protective chemical-resistant clothing, if the severity of skin exposure.

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## **09: Physical and Chemical Properties**

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**Physical state** White free-flowing powder

**Odour** Slight acrylic

**Melting point/range** Not applicable

**Ignition temperature** 350 °C

**Lower explosion limit-Dust.** Not applicable

**Water solubility** Insoluble

**Relative density** Not applicable

**Evaporation rate** Not applicable

**Specific gravity (water=1)** 0.25-0.50 g/cm<sup>3</sup>

**Solubility in water (% w/w)** Insoluble

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## **10: Stability and Reactivity**

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**Chemical stability:** Stable under normal temperatures and pressures

**Possibility of hazardous reactions:** Not available

**Conditions to avoid:** Avoid heat, sparks, open flames, or other sources of ignition.

**Incompatible materials:** combustible materials. In contact with strong acid, strong alkali, oxidizing material, May cause polymer decomposition.

### **Hazardous decomposition product**

When heated: Irritating/toxic fume and vapors (acrylic monomers, etc.) by decomposition of products may be released.



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## 11: Toxicological Information

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**Acute oral toxicity:** LD50 rat Dose: > 5,000 mg/kg

**Acute dermal toxicity:** LD50 rabbit Dose: > 5,000 mg/kg

**Acute inhalation toxicity:** LC50 rat

**Skin irritation:** Rabbit 4 h No skin irritation

**Eye irritation:** Rabbit rabbit 24 h slight irritation

**Further information:** Information given is based on data obtained from similar substances.

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## 12: Ecological Considerations

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Environmental toxicity information: No applicable data.

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## 13: Disposal Considerations

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**Waste disposal.** For disposal, incinerate this material at a facility that complies with local, provincial, and states regulations.

**European Waste Catalogue** (2000/532/EC)

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact waste disposal services.

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## 14: Transport Information

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This material is not hazardous for land, air and marine transportations and not considered by the United Nations Economic Commission for Europe to be dangerous goods

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## 15: Regulatory Information

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The product quality is regulated by the standard listed below: Q/RFH 014-2009.

**Hazard symbol and Indication of danger**

This product is not hazardous according to EEC Directives 67/548/EEC and 99/45/EC including amendments (2001/60/EC and 2006/8/EC)

EU. EINECS (EINECS): This product satisfies all the requirements of the European Inventory of Existing Chemical Substances (EINECS).

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## 16: Other Information

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The above data is based upon our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. The data cannot be interpreted as a guarantee of properties.