



Acrylic Impact Modifier

LS-51/LS-61/LS-50/LS-55/LS-362/LS-390

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: Acrylic Impact Modifier LS-51/LS-61/LS-50/LS-55/LS-362/LS-390

Product Use: Impact Modifier for Rigid PVC

Chemical Formula: (C₇H₁₂O₂·C₅H₈O₂)_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-Butyl acrylate Copolymer % :97-99

CAS Registry Number: 25852-37-3

Individual residual monomers None

EU Classification

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



04: First Aid Measures

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.

05: Fire Fighting Measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

-Small fire: CO₂, 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.

06: Accidental Release Measures

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.

07: Handling and Storage

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

08: Exposure controls/Personal protection

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.

09: Physical and Chemical Properties

Physical state White free-flowing powder

Odour Slight acrylic

Melting point/range Not applicable

Ignition temperature 360 °C

Lower explosion limit-Dust. Not applicable

Water solubility Insoluble

Relative density Not applicable

Evaporation rate Not applicable

Specific gravity (water=1) 0.40-0.55 g/cm³

Solubility in water (% w/w) Insoluble

10: Stability and Reactivity

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.

11: Toxicological Information

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.

12: Ecological Considerations

Environmental toxicity information: No applicable data.

13: Disposal Considerations

Disposal method

Incinerate waste. Landfill in landfill facilities after crushing, cutting (below 15cm diameter) or smelting, if incineration is difficult.

Disposal precaution

Consider the require attentions in accordance with waste treatment management regulation.

14: Transport Information

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

15: Regulatory Information

The product quality is regulated by the standard listed below: Q/RFH 015-2009.

EU Classification

Classification: Not classified

Risk phrases : Not classified

Safety phrases : Not classified

16: Other Information

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.