

Material Safety Data Sheet**LIR - 30, 50****MSDS No.KEP-101I****1 PRODUCT AND COMPANY IDENTIFICATION**

Product Name : LIR - 30, 50
 Supplier : Kuraray Co., Ltd., Elastomer Company
 Elastomer Dept., Polymer Sec.
 Kuraray Nihonbashi Building
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name : Liquid Polyisoprene
 Chemical Family : Polymer

No.	Composition	CAS No.	Percent
P	LIR-30		100
1.	Liquid Polyisoprene	9003-31-0	>99

3 HAZARDS IDENTIFICATION

This product is not hazardous as defined by the U.S. Occupational Safety and Health Administration. (OSHA) under its Hazard Communication Standard (HCS), 29 CFR 1910. 1200.

UN Class and UN Number : Non regulated commodity
 Adverse Human Health Effects : Not available
 Physical and Chemical Hazards : Not applicable
 Environmental Effects : Not toxic gas generation when its incineration

4 FIRST-AID MEASURES

Eye Contact : Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.
 Skin Contact : Wipe off the affected area with cloth and wash it under running water using a mild soap. If irritation persists, arrange for transport to the

- Inhalation : nearest medical facility for examination and treatment by a physician. Remove the victim from the contamination immediately to fresh air. Keep the victim warm and quiet. If any symptoms may appear, arrange for transport to the nearest medical facility for examination and treatment as soon as possible.
- Ingestion : Rinse mouth with water. Give the person one or two glasses of water, if they are conscious, try to get the victim to vomit by having the victim touch the back of their throat with a finger. If they are unconscious, don't give anything to drink and don't make them vomit. Arrange for transport to the nearest medical facility for examination and treatment as soon as possible.

5.....FIRE FIGHTING MEASURES.....

Specific Hazards : Toxic gases (carbon monoxide) may form when burned without sufficient oxygen.

Extinguishing Media : Use water fog, foam, dry chemical or CO₂

Special Fire Fighting Procedures and Precautions :

Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Flash Points and Method : None

Flammable Limits/Percent Volume in Air

Lower : None

Higher : None

6.....ACCIDENTAL RELEASE MEASURES.....

Method for Cleaning up : Take up mechanically, then place in a chemical waste containers. Absorb the rest with inert material (e.g. , dry sand or earth), then place in a chemical waste containers. Flush residual spill (area) with copious amount of water.

Personal Precaution : Wear appropriate respiratory protection and protective clothing as described in section 8.

7 HANDLING AND STORAGE

- Handling :** Use only in the well-ventilated areas. Avoid contact with skins and eyes.
- Storage :** Store in a cool, dry, well-ventilated location. Keep away from all possible source of ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Comp.	OSHA			ACGIH	
	PEL/TWA	PEL/CEILING	TVL/TWA	TLV/STEL	Other
P	None established				

- Respiratory Protection :** Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator and air-purifying respirator for particulates.
- Protective Clothing :** Protective eye glasses or chemical safety goggles should be worn. Impervious whole body suits and gloves are recommended to be worn.
- Additional Protective Measures :**
Adequate ventilation and/or engineering controls are required when product is heated in processing.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Boiling Point (deg. F) :** None
- Melting Point (deg. F) :** None
- Specific Gravity (H₂O=1) :** 0.91
- Solubility in Water :** Insoluble
- Vapor Pressure (mm Hg) :** None
- Vapor Density (Air=1) :** None
- Evaporation Rate (Butyl Acetate = 1) :** None
- Appearance and Odor :** Viscous liquid, , essentially odorless.

10 STABILITY AND REACTIVITY

Stability : Stable. Hazardous polymerization will not occur.

Conditions and Materials to Avoid :

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products :

At processing temperatures, some degree of thermal degradation will occur. Although highly dependent on temperature and environmental conditions, a variety of decomposition products may be present ranging from simple hydrocarbons (such as methane and propane) to toxic/irritating gases (carbon monoxide, dioxide and etc.).

11 TOXICOLOGICAL INFORMATION

No.	Acute Oral LD ₅₀	Acute Dermal LD ₅₀	Acute Inhalation LC ₅₀	Ames
P	>2000mg/kg (Rat) (LIR - 30)	Not Available	Not Available	Negative (LIR - 30)

12 ECOLOGICAL INFORMATION

All evidence indicates that large polymer molecules are not biologically active.

13 DISPOSAL CONSIDERATION

Waste Disposal : All recovered material should be disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

14 TRANSPORT INFORMATION

Department of Transportation Classification : Not hazardous by D.O.T. regulations
DOT Proper Shipping Name : Not applicable
UN Classification Number : Non regulated commodity

15 REGULATORY INFORMATION

The components of this product are listed on the EPA/TSCA inventory of chemical substances.
All the monomers used to produce this product are listed in EINECS inventory list.

16 OTHER INFORMATION

All data presented here in is based on actual measurements performed by Kuraray Co., Ltd. All information contained herein is presented in good faith and without warranty.

Kuraray Co., Ltd.

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