

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : LIR-30, 50

Supplier : Kuraray Co., Ltd., Elastomer Division, Polymer Marketing & Sales Department

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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

PHYSICAL HAZARDS

- | | |
|--|----------------|
| • Explosives | Not applicable |
| • Flammable gases | Not applicable |
| • Flammable aerosols | Not applicable |
| • Oxidizing gases | Not applicable |
| • Gases under pressure | Not applicable |
| • Flammable liquids | Not classified |
| • Flammable solids | Not applicable |
| • Self-reactive substances and mixtures | Not applicable |
| • Pyrophoric liquids | Not classified |
| • Pyrophoric solids | Not applicable |
| • Self-heating substances and mixtures | Not classified |
| • Substances and mixture which,
In contact with water, emit flammable gases | Not applicable |
| • Oxidizing liquids | Not applicable |
| • Oxidizing solids | Not applicable |
| • Organic peroxides | Not applicable |
| • Corrosive to metals | Not classified |

HEALTH HAZARDS

- | | |
|---|-----------------------------|
| • Acute toxicity (oral) | Category 5 |
| • Acute toxicity (skin) | Classification not possible |
| • Acute toxicity (inhalation: gas) | Not applicable |
| • Acute toxicity (inhalation: vapour) | Classification not possible |
| • Acute toxicity (inhalation: dust, mist) | Classification not possible |
| • Skin corrosion / irritation | Not classified |
| • Serious eye damages / eye irritation | Classification not possible |
| • Respiratory sensitization | Classification not possible |
| • Skin sensitization | Classification not possible |
| • Germ cell mutagenicity | Not classified |

- Carcinogenicity Classification not possible
- Reproductive toxicity Category 2
- Specific target organ toxicity; single exposure Classification not possible
- Specific target organ toxicity; repeated exposure Classification not possible
- Aspiration hazard Classification not possible

ENVIRONMENTAL HAZARDS

- Aquatic toxicity (acute) Classification not possible
- Aquatic toxicity (chronic) Classification not possible

GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS

SYMBOL:



SIGNAL WORD: Warning

HAZARD STATEMENT: Suspected of damaging fertility or the unborn child.

PRECAUTIONARY STATEMENTS

[Prevention]

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.

[Response]

- If exposed or concerned: Get medical advice/attention.

[Storage]

- Store locked up.

[Disposal]

- Dispose of contents / container to waste in accordance with local / regional / national/ international regulations (to be specified).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Substance

Chemical nature : Polymer

Chemical name	Concentration	CAS No.
Liquid polyisoprene	99%<	9003-31-0
Antioxidant(2,6-di- <i>t</i> -butyl-4-cresol)	0.1%	-
Solvent(<i>n</i> -hexane, cyclo-hexane)	<0.7%	-

4. FIRST-AID MEASURES

Eye Contact :

Gently rinse the eyes with water for at least 15 minutes. Get medical attention if eye

irritation develops or persists.

Skin Contact :

At normal temperature, wipe off the affected area with cloth and wash with water and mild soap. If signs/symptoms continue, get medical attention. If contact with hot material, cool the burn area by flushing with large amounts of water and get medical treatment.

Inhalation :

If gas generated in process is inhaled, remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion :

Rinse mouth with water and get medical advice. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Specific Hazards :

Not flammable but will burn. Toxic gases (carbon monoxide) may form when burned without sufficient oxygen.

Extinguishing Media :

Use water, fog, foam, dry chemical powder or CO₂.

Specific methods :

Keep personnel removed from and upwind of fire. Cool fire exposed containers with water.

Protections of fire-fighters :

Firefighters should wear proper protective equipment(helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

6. ADDITIONAL 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 :

Do not use near open flames. Avoid breathing vapors from heated materials. Adequate ventilation and/or engineering control must be employed in high temperature processing.

Storage :

Store in a cool, dry, well ventilated location.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Comp. OSHA ACGIH

No. PEL/TWA PEL/CEILING TVL/TWA TLV/STEL Other

P None established

Respiratory Protection:

If engineering controls do not maintain their performance to a level that is adequate to protect worker health, a NIOSH-approved respirator should be worn. In accordance with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors and dusts.

Protective Clothing :

Safety glasses and protective clothing should be worn when product is heated in processing.

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
Flash Point	: 240°C (LIR-30, Cleveland open-cup) 202°C (LIR-50, Seta Flash Closed Cup)
Flammable Limits/Percent Volume in Air	Lower : None Higher : None
Specific Gravity (H ₂ O=1)	: 0.91
Solubility in Water	: Negligible
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 REACTIVIY

Stability :

This product is considered a stable material under normal and anticipated storage and handling conditions.

Conditions and Materials to Avoid :

Rainwater, the direct rays of the sun, open flame and etc.

Hazardous Decomposition Products :

Not available

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 : >2000mg/kg (Rat, LIR-30)
Acute Dermal Irritation (Rabbit) : Negative (LIR-30)
Acute Inhalation LC50 : Not Available
Ames : Negative (LIR-30)
Skin Sensitization (Murine Local Lymph Node Assay) : Negative (LIR-30)

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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 INFORMATIONS

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

TSCA Inventory (USA) : 9003-31-0
DSL (Canada) : 9003-31-0
EINECS (EU) : Polymer Exempt (Monomer listed)
AICS (Australia) : 9003-31-0
ECL (Korea) : KE-23528
IECSC (China) : 9003-31-0
PICCS (Philippines) : 9003-31-0
ENCS (Japan) : 6-748

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.

For medical, healthcare and food contact applications, please contact us for specific recommendations. This product should not be used in any devices or materials intended for implantation in the human body.

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