



USI CORPORATION

MATERIAL SAFETY DATA SHEET

1. Identification Of The Material And Company

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| Product Name | LINEAR LOW DENSITY POLYETHYLENE RESINS |
| Trade Name | LINATHENE® |
| Main Applications | Blown film extrusion, Casting, Injection molding. |
| Producer Information | Supplier Name: USI Corporation |
| | Addresses :12th Fl., No.37 Ji Hu Road, Nei Hu, Taipei, 114 |
| | Phone: +886-2-87516888 |

2. Hazardous Identification :

| | |
|--------------------|------|
| Hazardous category | None |
| Contents of label | None |
| Other Hazards | None |

3. Composition/Information On Ingredients

Pure substance :

| | |
|---------------------------|--|
| Product Name | LINEAR LOW DENSITY POLYETHYLENE RESINS |
| Synonyms | LLDPE |
| Chemical Abstracts Number | 025087-34-7 (CAS No.) |
| Hazardous Components | None (Percentage of additives Ingredient) |

Mixture :

Chemical Character :

| Hazardous Components | Concentration / Percentage |
|----------------------|----------------------------|
| None | --- |
| | |

4. First Aid Measures :

Emergency And First Aid Procedures :

- Eye Contact : Rinse opened eye for several minutes under running water. Seek medical advice if pain persists.
- Inhalation : move person to fresh air; if effects occur, consult a physician.
- Skin Contact : If contact with molten material, immediately immerse contacted area with cold water. Don't attempt to peel the molten material apart from skin. Seek medical advice promptly.
- Ingestion : very low toxicity. if swallow may cause choking. Consult a physician when swallow a large amount pellets.

Major Symptom And Harm Effect : None

First-Aid Personal Protection : No need

Notes to physician : expatiate symptom or phenomenon of the patient.

5. Fire Fighting Measures

Suitable Extinguishing Media : Water, carbon dioxide, dry chemical, alcohol- or universal-type of foams, following the techniques recommended by the manufacturer.

Special Exposure Hazards : Dust may be explosive when mix with air.

Special Extinguishing Procedure : 1. Stand on the up-wind side, then apply fire extinguisher.

to cover the fire area thoroughly. 2. if possible, remove the remaining pellets or goods to a safe location.

3. Appropriate protective fire fighting clothing and respirator are necessary for firefighters.



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6. Accidental Release Measures

Personal Protection : None

Environmental Protection : None

Methods For Cleaning Up : Use standard disposal procedure to clean the leakage, and if the leakage is over the leagel limit and may cause pollution, it is necessary to inform the local authorities.

7. Handling And Storage :

Handling : Keep material away from the traffic area, for it may be slippery. Use in well-ventilated area. Proper grounding and packaging to prevent the build up of static electricity during transportation.

Storage : Store in a cool location (60~80 °F, 15~26°C), away from direct sunlight or any source of heat. Keep container tightly closed when not being used.

8. Exposure Control/Personal Protection

Engineering Control : Ventilated area to prevent accumulation of dust and fumes.

Control Factor : TWA/STEL/CEILING/Biotic Index (BEI):----

Personal Protection Equipment :

●Respiratory Protection : Use dust-proof mask.

●Hand Protection : Use rubber gloves. Use thermal resistant gloves, when needed.

●Eye Protection : Use safety goggles, when dust is present.

●Skin & Body Protection : Long sleeve lab coats and gloves to protect skin exposure.

Hygiene Procedures : None

9. Physical And Chemical Properties / Characteristics

| | |
|--|---|
| Appearance : Solid pellets | Odor : negligible |
| Odor threshold : not applicable | PH value : Not applicable |
| Melting Point : 120~130°C | Boiling Point/ Boiling Range : Not applicable |
| Inflammability : Not applicable | Flash Point : 340 °C |
| Decomposition Temperature : >400°C | Test Method : Open Cup Close Cup |
| Spontaneous Temperature : 340°C | Exposure Limits : Not applicable |
| Vapor Pressure : Not applicable | Vapor Density : Not applicable |
| Density: 0.910 ~ 0.930 | Solubility In Water : Insoluble |
| Partition coefficient(n-octanol/water,log Kow) : --- | Volatility Speed : --- |

10. Stability And Reactivity :

Stability : Stable

Special Conditions Of Hazardous Reaction : Not applicable

Conditions To Avoid : Temperature over 250 °C

Incompatibility : might react with strong oxidant.

Hazardous Decomposition Products : carbon monoxide, carbon dioxide and a wide variety of innocuous or toxic fumes.



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11. Toxicological Information :

Exposure : it might cause the respiratory system uncomfortable while inhaling the dust or smog.

Symptom : None

Acute toxicity : None

Chronic toxicity : None

12. Ecological Information

Ecological Toxicity : Difficult to biodegrade. It can be recycled by using appropriate technologies.

Sustainable and De-toxic : hard to naturally degrade.

Ecologic Accumulation : None

Liquidity in Soil : None

Other poor Effect : To burn them improperly might generate hazardous gas.

13. Disposal Information :

Disposal Information : Dispose of waste material at an approved waste incineration facility in accordance with applicable regulations.

14. Transport Information

The United Nations Number(UN-No) : Not regulated

The United Nations Shipping Name : Not regulated

D.O.T. Hazard Class : Not regulated as a hazardous for transportation.

Package Category : Not regulated

Maritime Pollutants : Not regulated

Special Transport Way And Note : Not regulated

15. Regulatory Information :

Linear Low Density Polyethylene(CAS#025087-34-7) is listed in the following chemical inventories:

-USA-TSCA

-Canada-DSL

-European EINECS are exempt from the listings,all monomers are listed.

-Australian AICS

-Korean ECL

-Philippines PICCS

-Chinese Inventory of Existing Chemical Sustances

16. Other Information :

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| Reference | None |
| Producer | USI Corporation |
| MSDS prepared by | Mr. CL Liu (Technical Support Department) |
| Revision date | 2010/3/1 |