



台聚關係企業

USI CORPORATION

MATERIAL SAFETY DATA SHEET

1. Identification Of The Material And Company

Product Name	HIGH DENSITY POLYETHYLENE RESIN
Trade Name	UNITHENE ®
Main Applications	Flat yarn, Coarse monofilament, Injection molding, Sheet extrusion.
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	High Density Polyethylene
Synonyms	HDPE
Chemical Abstracts Number	9002-88-4 (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 : 131~135°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 : 400°C	Exposure Limits : Not applicable
Vapor Pressure : Not applicable	Vapor Density : Not applicable
Density: 0.950 ~ 0.965	Solubility In Water : Insoluble
Partition coefficient(n-octanol/water,iog 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 :

High Density Polyethylene(CAS#9002-88-4) 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 :

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