



台聚關係企業

# USI CORPORATION SAFETY DATA SHEET

## 1. Identification Of The Material And Company

Chemical Name : HIGH DENSITY POLYETHYLENE

Trade Name : UNITHENE ®

Synonyms: HIGH DENSITY POLYETHYLENE RESINS 、 HDPE

REACH registration number:01-2119462827-27-xxxx

Main Applications : Flat yarn, Coarse monofilament, Injection molding, Sheet extrusion.

Supplier Name : USI Corporation

Addresses/Phone:NO.330,FENGREN RD.,RENWU DIST.,KAOHSIUNG,TAIWAN/TEL:+886-2-8751-6888

Emergency phone Number/FAX : +886-2-87516888 /FAX:+886-3-318-7229

## 2. Hazardous Identification :

Not a hazardous substance or mixture

Classification according to Regulation GHS : None

Classification according to Regulation (EC) No 1272/2008[CLP] : None

Contents of label : None

Other Hazards : None

Results of PBT and vPvB assessment:This information is not required.

## 3. Composition/Information On Ingredients

Pure substance :

Chinese and English Chemical name:高密度聚乙烯 (HIGH DENSITY POLYETHYLENE )

Synonyms:HIGH DENSITY POLYETHYLENE RESINS 、 HDPE

Chemical Abstracts Number (CAS No.) : 9002-88-4

EC Number : 618-339-3

REACH registration number:01-2119462827-27-xxxx

Hazardous Components : None

Mixture:

Chemical properties:

| Chinese and English names<br>of the hazardous ingredients | CAS No. | Ingredient percent% |
|---|---------|---------------------|
| None  | None    | None                |

## 4. First Aid Measures :

The first aid measures for different exposure routes:

- Inhalation : Supply fresh air . Get medical attention.
- Skin Contact : If contact with molten material, immediately immerse contacted area with cold water.  
Don't attempt to peel off the molten material from skin.Get medical attention.
- Eye Contact : Flush eyes with plenty of water for several minutes. Seek medical advice if pain persists.
- Ingestion:Get medical attention.

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

Hazardous Combustion Products : Carbon monoxide (CO), Carbon dioxide (CO2)

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.

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



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## 6. Accidental Release Measures

**Personal Protection :** It may be slippery.  
**Environmental Protection :** Do not flush into surface water or sanitary sewer system.  
**Methods For Cleaning Up :** Stop leak and shovel into container for disposal.

## 7. Handling And Storage :

**Handling :** Before using, read the Product Data Sheet. Use in well-ventilated area.  
**Storage :** Keep in a dry, cool place. Do not store in heat or direct sunlight.  
 Keep container tightly closed when not being used.  
**Specific end uses:** None

## 8. Exposure Control/Personal Protection

**Engineering Control :** Ventilated area to prevent accumulation of fumes.

**Control Factor :**  
 ● 8 hours time average exposure limits/Short-term exposure limits/maximum exposure limits:

| PEL - Permissible exposure limit |                           | Regulation |
|----------------------------------|---------------------------|------------|
| TLV-TWA                          | No applicable data( 8hr)  | USA -OSHA  |
| TLV-STEL                         | No applicable data(15min) | USA -OSHA  |
| TLV-C                            | No applicable data        | USA -OSHA  |

**Environmental exposure controls:** No special environmental precautions required  
 ● Biological standard: N/A

**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 fumes is present.  
 ● Skin & Body Protection : Long sleeve coats and gloves to protect skin exposure.

**Hygiene Procedures :** None

## 9. Physical And Chemical Properties / Characteristics

|   |   |
|---|---|
| Appearance : White Solid pellets  | Odor : negligible   |
| Odor threshold:No applicable data available.                                      | Melting Point : 125~140°C   |
| PH value : Not applicable   | Boiling Point/ Boiling Range : Not applicable   |
| Inflammability : Not applicable   | Flash Point : >340 °C   |
| Decomposition Temperature : Not applicable  | Test Method : Open Cup <input type="checkbox"/> Close Cup <input checked="" type="checkbox"/> |
| Autoignition Temperature : 400°C  | Exposure Limits : Not applicable  |
| Vapor Pressure : Not applicable   | Vapor Density : Not applicable  |
| Density: 0.940 ~ 0.965  | Solubility In Water : Insoluble   |
| Partition coefficient(n-octanol/water,iog Kow) :<br>No applicable data available. | Evaporation rate : No applicable  |



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## 10. Stability And Reactivity :

Reactivity: Stable under normal conditions of handling, use and transportation

Stability : Stable

Special Conditions Of Hazardous Reaction : Not applicable

Conditions To Avoid : Avoid heating above the recommended processing temperature.

Incompatibility : Might react with strong oxidant.

Hazardous Decomposition Products : Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## 11. Toxicological Information :

Routes of exposure : Skin, eyes, inhalation and ingestion

Immediate effects:

●Eye :Solid or dust may cause irritation or corneal injury due to mechanical action.

●Inhalation : Vapors released during thermal processing may cause respiratory irritation.

●Skin Contact : No skin irritation.

●Ingestion : Essentially non-toxic based on components.Unable to digest.

Other :

Carcinogenicity :None

Acute toxicity : None

Chronic toxicity : None

## 12. Ecological Information

Ecological Toxicity : No test data available

Sustainable and De-toxic : Difficult to biodegrade. It can be recycled with appropriate technologies.

Ecologic Accumulation : None

Liquidity in Soil : None

Results of PBT and vPvB assessment : This information is not required.

Other poor Effect : Improper burning may 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

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.

## 15. Regulatory Information :

HIGH DENSITY POLYETHYLENE(CAS#9002-88-4) is listed in the following chemical inventories:

-Australian-AICS

-Canada-DSL

-Chinese Inventory of Existing Chemical Substances

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

-Japan-ENCS

-New Zealand-NZIoC

-Philippines-PICCS

-USA-TSCA

-Taiwan - Taiwan's chemical substance inventory (TCSI)



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## 16. Other Information :

### Abbreviation and Acronym:

CAS - Chemical Abstracts Service (division of the American Chemical Society)

CLP - Classification, Labelling and Packaging

D.O.T. - Depart of Transportation

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IBC Code - International Bulk Chemical Code

MARPOL - International Convention for the Prevention of Pollution from Ships

PBT - persistent, bioaccumulative and toxic

PEL - Permissible exposure limit

TLV-C - Threshold Limit Values-Ceiling exposure limit

TLV-STEL - Threshold Limit Values-Short Time Exposure Limit

TLV-TWA - Threshold Limit Values-Time Weighted Average

USA-OSHA - Occupational Safety and Health Administration

vPvB - very Persistent and very Bioaccumulative

Reference : None

Producer : USI Corporation

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Person who prepared the SDS : R & D Division

Date that the SDS was prepared :2019/12/31

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, storage, processing, transportation, disposal and release and is not to be considered a warranty or quality specification.