USI CORPORATION SAFETY DATA SHEET

台聚關係企業

## 1．Identification of the chemicals and of the business entity

## Chemical Name ：HIGH DENSITY POLYETHYLENE

Trade Name ：UNITHENE ${ }^{\circledR}$
Synonyms：High density polyethylene resins，HDPE
Recommended use and restrictions on use：
Each HDPE has its individual application such as flat yarn，coarse monofilament，injection molding，sheet extrusion． Please refer to the TDS（Technical Data Sheet）for the detailed information．

Supplier Name ：USI Corporation
Addresses／Phone：No．330，Fengren Rd．，Renwu Dist．，Kaohsiung City 81449，Taiwan（R．O．C．）／＋886－2－8751－6888
Emergency contact phone numbers／fax numbers：＋886－2－87516888／＋886－3－318－7229

## 2．Hazard（s）identification

Not a hazardous substance or mixture
Classification according to Regulation GHS ：Not classified as hazardous
Classification according to Regulation（EC）No 1272／2008［CLP］：Not classified as hazardous
Label content：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
CAS No．：9002－88－4
REACH registration number：01－2119462827－27－xxxx
Hazardous ingredients（\％of the content）：None

## 4．First－aid measures

The first aid measures for different exposure routes：
OInhalation：
Supply fresh air ．Get medical attention．
OSkin 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．
OEye contact：
Flush eyes with plenty of water．
Seek medical advice if pain persists．
Ongestion：Get medical attention．
Most important symptoms and hazardous effects：None
Protection for first－aid providers：No need
Notes to physicians：Expatiate symptom or phenomenon of the patient．

## 5．Firefighting measures

Suitable fire extinguishing media：Water，water fog，foam，carbon dioxide，dry chemical．
Specific hazards regarding firefighting measures：
Carbon monoxide（CO），Carbon dioxide（CO2）may be produced when the product is burned．
Specific methods regarding firefighting measure：
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．
Special protective equipment and precautions for firefighters：
Appropriate protective fire fighting clothing and respirator are necessary for firefighters．

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## 6．Accidental release measures

Personal precautions：
Spilled material may cause a slipping hazard．
Follow safe handling advice and personal protective equipment recommendations．
Environmental precautions：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 TDS（ Technical Data Sheet ）．
Use in well－ventilated area．
Storage：Keep in a dry，cool place．Do not store in heat or direct sunlight．
Keep in properly labelled containers and tightly closed when not being used．
Specific end uses：None

## 8．Exposure controls／personal protection

Engineering control：Ventilated area to prevent accumulation of fumes．
Control parameters：
8－hour time weighted 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 protective 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 and body protection：Long sleeve lab coats and gloves to protect skin exposure．
Hygiene measures：None
9．Physical and chemical properties

| Appearance（physical state，color，etc．）：White solid pellets | Odor：negligible |
| :--- | :--- |
| Odor threshold：No data available | Melting point： $125 \sim 140{ }^{\circ} \mathrm{C}$ |
| pH value：Not applicable | Boiling point／boiling point range：No data available |
| Flammability：No data available | Flash point：$>340{ }^{\circ} \mathrm{C}$ |
| Decomposition temperature：No data available | Test method ：$\square$ Open cup $\quad$ Close cup |
| Auto－ignition temperature：ca． $400{ }^{\circ} \mathrm{C}$ | Explosion limits ：Not applicable |
| Vapor pressure：Not applicable | Vapor density：Not applicable |
| Density： $0.940 \sim 0.965$ g／cm ${ }^{3}$ | Evaporation rate ：Not applicable |
| Partition coefficient（n－octanol／water，logKow）：No data <br> available | Insoluble |

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## 10．Stability and reactivity

Reactivity：Stable under normal conditions of handling，use and transportation．
Stability：Stable under normal conditions．
Possible hazardous reactions under specific conditions：
Stable under recommended storage conditions．
No hazards to be specially mentioned．
Conditions to avoid：：Avoid heating above the recommended processing temperature．
Materials to avoid：Might react with strong oxidant．
Hazardous decomposition products：Material does not decompose at ambient temperatures．

## 11．Toxicological information

Routes of exposure ：Skin，eyes，inhalation and ingestion
Immediate effects：

## OEye：

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

## Inhalation ：

Dusts and vapors or fumes evolved during thermal processing may cause irritation to the respiratory system．
Skin contact：
No skin irritation．
Ingestion：
Essentially non－toxic based on components．
Unable to digest．
Other ：
Carcinogenicity ：No data available
Acute toxicity：No data available
Chronic toxicity：No data available
12．Ecological information
Ecotoxicity：Difficult to biodegrade．It can be recycled with appropriate technologies．
Persistence and degradability：Hard to naturally degrade．
Bioaccumulative potential：None
Mobility in soil：None
Results of PBT and vPvB assessment：This information is not required．
Other adverse effects：Improper burning may generate hazardous gas．
13．Disposal considerations
Methods of waste disposal：
Dispose of waste material at an approved waste incineration facility in accordance with applicable regulations．

## 14．Transport information

United Nations number（UN No）：Not regulated
UN Proper shipping name：Not regulated
Transport hazard class（es）：Not regulated as a hazardous for transportation．
Packing group：Not regulated
Marine pollutant（Yes／No）：Not regulated
Specific transport measures and precautionary conditions：Not regulated
Transport in bulk according to Annex II of MARPOL73／78 and the IBC Code ：Not applicable．
The general rule for classification and hazard communication of chemicals（RID－ADR，IMO，IATA，IMDG）：
Not regulated for transport．

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## 15．Regulatory information

HIGH DENSITY POLYETHYLENE（CAS No．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）

## 16．Other information

Abbreviation and Acronym：
CAS－Chemical Abstracts Service（division of the American Chemical Society）
CLP－Classification，Labelling and Packaging
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 Exposire 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
Addresses ：No．9，Dinghu 5th St．，Guishan Dist．，Taoyuan City 333，Taiwan
Phone Number ：＋886－2－8751－6888
Person who prepared the SDS ：R \＆D Division
Date that the SDS was prepared ：2024／01／02
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．

