

## Material Safety Data Sheet

### 1. Product and Company Identification

Identity(Trade Name As Used On Label) :

**UBE POLYETHYLENE UBEC180**

Synonyms: Polyethylene

Manufacturer: UBE-MARUZEN POLYETHYLENE CO.,LTD.

Address: Seavance North Building . 2-1, Shibaura 1-chome,  
Minato-Ku, Tokyo 105-6791, Japan

Phone Number: +81-3-5419-6164

FAX Number: +81-3-5419-6249

### 2. Composition, Information On Ingredients

<u>Chemical name</u>	<u>Chemical formula</u>	<u>Purity</u>	<u>CAS No.</u>
Polyethylene	$-(CH_2-CH_2)_n-$	>96 wt%	9002-88-4
Additives		< 4 wt%	Not Available

OSHA hazardous ingredients  
This material is not hazardous.

### 3. Hazards Identification

Emergency overview : Irritating vapors to respiratory systems and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

Potential health effects :

Eyes	Slightly hazardous in case of eye contact (irritant). Heated Polymer ; Eye contact can cause serious thermal burns. Vapors formed when polymer is heated may be irritating to be eye.
Skin	Non-irritating , Non –sensitizer for skin. Heated Polymer ; skin contact can cause serious thermal burns.
Inhalation	Negligible at room temperature. Nuisance dusts can be irritating to be the upper respiratory tract. Irritating vapors may form when the polymer is processed at high temperature.
Ingestion	No effects are expected for ingestion of small amounts. May be a choking hazard.

Environmental hazards: Not Available

Chronic toxicity/Carcinogenicity : Not Available



---

#### 4. First Aid Measures

<u>Inhalation:</u>	Move person to non –contaminated air, Seek medical attention if symptoms persists. Inhalation of smoke following a fire may result in delayed pulmonary edema.
<u>Skin contact :</u>	Polymer ; No known effects on skin contact. Rinse with water for few minutes. Heated polymer; for serious burns from heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.
<u>Eye contact :</u>	Immediately flush eyes with water for at least 15minutes, while holding eyelid open. Seek medical attention if irritation persists.
<u>Ingestion :</u>	Material is not expected to be absorbed from the gastrointestinal tract. Do not induce vomiting. Seek medical attention immediately.

---

#### 5. Fire Fighting Measures

Flammable properties

<u>Flash point and method</u> ;	Not Available
<u>Flammable limit;</u> ;	Not Available
<u>Auto-ignition temperature</u> ;	Approx, 400 °C
<u>Specific hazards</u> ;	Carbon Oxides ( CO and CO <sub>2</sub> ) and Soot.
<u>Extinguishing media ;</u>	Dry chemical powder, Carbon dioxide, Water foam
<u>Special fire fighting procedures;</u>	Overexposure to thermal decomposition products may cause a health hazard. Wear approved goggles and self-contained breathing apparatus.

---

#### 6. Accidental Release Measures

Small Spill and Leak;	Pellet on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep , shovel , or vacuum material into clean containers.
Large spill and Leak;	Use a shovel to put the material into clean containers.

---

#### 7. Handling And Storage ;

<u>Handling :</u>	Handling of plastic may form nuisance dust . Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that , when suspended in air , may be explosive. Dust accumulations should be controlled through a comprehensive dust control that Includes , but it is not limited to , source capture. Inspection and repair of leaking equipment ,routine housekeeping and employee training in hazards.
<u>Storage :</u>	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed .Keep in a cool , well-ventilated place. Combustible Materials should be stored away from extreme heat and away from strong oxidizing Agents.

---

## 8. Exposure Controls / Personal Protection

Engineering controls: Ventilation should effectively remove and prevent build up of any dust or heated vapors generated from the handling and processing of this products.  
Ensure that eyewash stations and safety shower are proximal to the workstation location.

Personal protective equipment  
Eye / Face protection :

Wear safety glasses with side shields .Goggles are required if contact with Molten material is likely.

Skin protection:

For molten products , use any type rubber thermal insulating gloves and other Clothing as necessary to protect from thermal burns. Safety footwear with good Traction is recommended to help prevent slipping.

Respiratory protection:

Ventilation is normally required when handling this product at high temperature. Wear appropriate respirator when ventilation is inadequate.

Exposure limit values:  
ACGIH

Not Available.  
Consult local authorities for acceptable exposure limits.

---

## 9. Physical And Chemical Properties

Appearance and Odor: Milky white pellets and odorless

PH: Not Available

Boiling point : Not Available

Melting point : 113 °C

Flash point : Not Available

Vapor pressure : Not Available

Vapor density : Not Available

Solubility in water : Insoluble

Specific gravity(H<sub>2</sub>O=1) : 0.924

Flammable properties:

Flash point: Not Available

Flammable limits: Not Available

Auto-ignition temperature: ca. 400°C

---

## 10. Stability And Reactivity

Stability: Stable under normal temperature and normal pressure.

Conditions to avoid: High temperatures

Materials to avoid: Avoid strong oxidizing agents .

Hazardous decomposition products : Hazardous decomposition products are carbon monoxide and carbon dioxide.

Hazardous polymerization: No.

#### 11. Toxicological Information

Acute Toxicity ;                    LD50   Not Available  
   LC50   Not Available

---

#### 12. Ecological Information

Ecotoxicological information ;    Not Available  
Chemical fate information ;        Not Available

---

#### 13. Disposal Considerations

Comply with all federal , state and local regulations.  
Do not dump this material into sewers, on the ground or into any body of water.

---

#### 14. Transport Information

U.S. DOT 49 CFR 172.101 ;        No classification assigned.  
Air transport IATA / ICAO ;        No classification assigned.  
Maritime transport IMDG ;        No classification assigned.

---

#### 15. Regulatory Information

Please refer to any other regulations of each country.

---

#### 16. Other Information

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of UBE-MARUZEN POLYETHYLENE CO.,LTD.  
The data on this sheet related only the specific material designated herein.  
UBE-MARUZEN POLYETHYLENECO.,LTD . assumes no legal responsibility for use or reliance upon these data.