

Material Safety Data Sheet

1. IDENTIFICATION

- A. Product Name : YUHWA HIDEN Grade : E308U
- B. Recommended use of the chemical and restrictions on use
A polyolefin plastic – For industrial conversion as a raw material for manufacture of articles or goods
- C. Information of manufacture, supplier
 - 1) Company : Korea Petrochemical Ind. Co., Ltd.
 - 2) Address : 260-158, Cheoyong-ro, Nam-gu, Ulsan, Korea
 - 3) Emergency Telephone No : (052) 278-8242~8246

2. HAZARD IDENTIFICATION

- A. Classification : None
- B. Label element, including precautionary statements
 - 1) Symbols : Data not available
 - 2) Signal word(s) : Data not available
 - 3) Hazard statement(s) : Data not available
 - 4) Precautionary statement(s)
 - Prevention : Data not available
 - Response : Data not available
 - Storage : Data not available
 - Disposal : Data not available
- C. Other hazards which do not result in classification
NFPA Code : Health =1, Flammability = 1, Reactivity = 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

- A. Chemical identity : High Density Polyethylene
- B. Common name, synonym : Ethene Polymer, Ethylene Polymer, Polyethene
- C. CAS No : 9002-88-4
- D. Content : $\geq 99\%$ (Additive : $\leq 1\%$)

4. FIRST AID MEASURES

- A. Eye contact
Flush eyes thoroughly with water at full. If effects occur, consult a physician.
- B. Skin contact
If molten material comes in contact with the skin, do not apply ice but cool under ice water.
Seek medical attention immediately.
- C. Inhalation
Move person to fresh air. If effects occur, consult a physician.
- D. Ingestion
If swallowed, seek medical attention.
- E. Most important symptoms/effect, acute and delayed
None established
- F. Indication of immediate medical attention and special treatment needed, if necessary
Treatment should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

- A. Suitable extinguishing media
Dry chemical fire extinguishers, Carbon dioxide fire extinguishers, Foam, Water fog or fine spray.
- B. Specific hazards arising from the chemical
During a fire, smoke contain the original material in addition to combustion products of varying Composition which may be toxic or irritation
- C. Special protective equipment and precautions for firefighters
Keep people away.
Cool surroundings with water to localize fire zone.
Hand held dry chemical or CO₂ extinguishers may be used for small fires.

6. ACCIDENTAL RELEASE MEASURES

- A. Personal precautions, protective equipment and emergency procedures
Isolate the hazard area. Use appropriate safety equipment.
- B. Environmental precautions
Prevent from entering into soil, ditch, sewers, waterways or groundwater.
- C. Methods and materials for containment and cleaning up
Contain spilled material if possible. Sweep up. Collect in suitable containers.

7. HANDLING AND STORAGE

- A. Precautions for safe handling : Not applicable
- B. Conditions for safe storage
Store in accordance with good manufacturing practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- A. Exposure limits in the air of the workplace, biological limit values : Not applicable
- B. Appropriate engineering controls
 - Good general ventilation should be adopted.
 - Local exhaust ventilation may be necessary for some operations.
- C. Individual protection measures
 - 1) Respiratory protection
 - Use an approved air ; purifying respirator when vapors are generated at increased temperatures or when dust or mist is present.
 - The following should be effective types of air ; purifying respirators
 - ⊙ Particulate filter
 - ⊙ Organic vapor cartridge with a particulate pre-filter
 - 2) Eye protection
 - Use safety glasses. Wear chemical goggles.
 - 3) Hand protection
 - Use gloves with insulation for thermal protection.
 - 4) Body protection
 - No precautions other than clean body-covering clothing should be needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

- A. Appearance (Physical state, color etc) : Pellet with white color or transparent colorless.
- B. Odor : odorless
- C. Odor threshold : Data not available
- D. pH : Not applicable
- E. Melting point / Freezing point : 130°C~140°C / 90°C~110°C
- F. Initial boiling point and boiling range : Not applicable
- G. Flash point : Data not available
- H. Evaporation rate : Not applicable
- I. Flammability (Solid, Gas) : Data not available
- j. Upper/lower flammability or explosive limits : Data not available
- K. Vapor pressure : Not applicable
- L. Solubility : Data not available
- M. Vapor density : Not applicable
- N. Specific gravity : 0.940~0.970
- O. Partition coefficient n-octanol/water : Not applicable
- P. Auto ignition temperature : 350°C
- Q. Decomposition temperature : Data not available
- R. Viscosity : Data not available
- S. Molecular weight : > 5,000

10. STABILITY AND REACTIVITY

- A. Chemical stability : Stable at room temperature and atmospheric pressure
- B. Possibility of hazardous reactivity : Data not available
- C. Conditions to avoid : Exposure to elevated temperature, Flame, Ignition source.
- D. Materials to avoid : Strong oxidizing agents
- E. Hazardous decomposition products
Processing may release fumes and other decomposition products