

Revision Date : 2016.06.21 (Rev.1)

Product Name : DYNEX PEEK

## 1. Chemical Product and Company Identification

- o **Product Name** : DYNEX PEEK
- o **Chemical Name** : PEEK (POLYETHERETHERKETONE)
- o **CAS NO** : 29658-26-2 (POLYMER)
- o **Product Use** : Engineering Plastic Stock Shape for Machining
- o **Company Identification** : DYNEX Co.,Ltd.  
 339, Namdongseo-ro, Namdong-Gu, Incheon-City, Korea  
 (TEL:82-32-677-2971, FAX:82-32-677-2974)

## 2. Hazards Identification

- o **GHS - Classifications**
  - Classification : None
  - Signal Word : None
  - Pictograms and Symbols : None
  - Hazard Statements : None
  - Precautionary Statements : None
- o **Eye** : Polymer particles can cause mechanical irritation.
- o **Skin** : Hot and molten material has the potential to cause thermal burns.
- o **Inhalation** : Shapes not respirable.
- o **Ingestion** : No specific information available on the product.
- o **Other hazards which do not result in classification** : None known.

## 3. Composition, information on Ingredients

Identity	CAS#	Concentration(%)
Polyetheretherketone	29658-26-2	>99
Other additives	-	<1

This is a polymeric material. All constituents have no likelihood of exposure under normal conditions of processing and handling.

## 4. First Aid Measures

- o **Eye**
  - Immediately flush eyes with plenty of water.
  - Seek medical attention if discomfort persists.

**o Skin**

- If hot and molten PEEK contact skin, cool rapidly with cold water.
- If PEEK is stuck to skin, do not remove. And allow adhered PEEK to come off naturally.
- Seek medical attention if burn occurs.

**o Inhalation**

- PEEK is not likely to be inhaled due to physical form.

**o Ingestion**

- If a significant quantity has been swallowed, give plenty of water to dilute. Seek medical attention.

**o General Information**

- This product is essentially inert and nontoxic.

**5. Fire Fighting Measures****o Extinguishing Media**

- Suitable extinguishing media : Carbon dioxide, powder, dry chemical, foam or water spray.
- Unsuitable extinguishing media : None Known.

**o Special hazards arising from the substance or mixture**

- Carbon monoxide, hydrogen cyanide and nitrogen gasses will occur.

**o Firefighting Instructions**

- Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear(bunker gear).

**6. Accidental Release Measures****o Personal precaution**

- Sweeping to prevent fell.

**o Environmental protection**

- No special measures.

**7. Handling and Storage****o Handling**

- Evacuate residue to prevent slipping hazard.

**o Storage**

- Store in well-ventilated area away from heat and sunlight. Dry storage

## 8. Exposure Controls, Personal Protection

### o Engineering Controls

- A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended.

### o Protective Equipment

- **Eyes** : Wear safety glasses with side shields should be sufficient for most processing and machining runs.
- **Skin** : When thermal or melt processing, wear long pants, long sleeves and well insulated gloves.
- **Respiratory** : Under normal conditions no special respiratory protection is required, however one recommends with work under increased temperatures without sufficient exhaust, use an approved air-purifying respirator.

### o Exposure Guidelines

Ingredient	Agency		Value
Particulates	OSHA	PEL	15 mg/m <sup>3</sup> (Total), 5 mg/m <sup>3</sup> (Respirable)
	ACGIH	TLV	10 mg/m <sup>3</sup> (Total)

## 9. Physical and Chemical Properties

- o **Appearance** : Solid/Stock shape may be rod or plate.
- o **Smell** : None
- o **PH** : Not applicable
- o **Water Solubility** : Insoluble
- o **Melting Point** : 343°C (649°F)
- o **Boiling Point** : Not applicable
- o **Vapor Pressure** : Not applicable
- o **Ignition Temperature** : 575°C (1067°F)
- o **Specific Gravity** : 1.27 ~ 1.37g/cm<sup>3</sup>

## 10. Stability and Reactivity

- o **Chemical Stability** : Stable under normal conditions of use and storage.
- o **Hazardous Reactions** : Stable under normal conditions of use
- o **Condition to Avoid** : Heating above 460°C (860°F).
- o **Materials to Avoid** : Concentrated sulfuric acid and oxidizing agents.
- o **Hazardous Decomposition Products** : Carbon dioxide, carbon monoxide and toxic gases.

## 11. Toxicological Information

- **Aggravated Medical** : No data available
- **Acute Effects** : No data available
- **Skin Corrosion/Irritation** : No data available
- **Serious Eye Damage/Irritation** : No data available
- **Respiratory or Skin Sensitization** : No data available
- **Germ Cell Mutagenicity** : No data available
- **Carcinogenicity** : No data available
- **Reproductive Toxicity** : No data available
- **Aspiration Hazard** : No data available

## 12. Ecological Information

- **Ecotoxicity** : There aren't known ecological toxicity values.
- **Persistence and degradability** : It's expected high persistence and slow degradability.
- **Bioaccumulative Potential** : It's expected moderate to high bioaccumulative potential.
- **Mobility in Soil** : No data available
- **Other Adverse Effects** : No data available

## 13. Disposal Considerations

Recycling is encouraged. Dispose in accordance with local regulations.

## 14. Transport Information

- **US Department of Transportation Classification (49CFR)** : Not classified as hazardous for transport.
- **IMDG** : Not regulated.
- **IATA** : Not regulated.

## 15. Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Occupational Safety and Health Act : Not relevant
  - AREC (K-REACH) and Chemicals Control Act : Not relevant
- **TSCA**

All the ingredients are listed in the TSCA Inventory or are compliant with the TSCA polymer exemption rule.

- o **Section 313 Supplier Notification**

This product does not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

- o **SARA Section 302/304**

No extremely hazardous substances

## 16. Other Information

This product is not intended for use in medical applications involving permanent implantation in the human body. The information contained herein is based on the present state of our knowledge. We don't suggest or guarantee that any hazards listed herein are the only ones that exist. DYNEX Co., Ltd. Makes no warranty of any kind concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and this material may aggravate the effects of other materials. Users have the sole responsibility to determine the suitability of the materials of any use and the manner of use contemplated. Users must meet all applicable safety and health standards.

- The End of SDS -