

Revision Date : 2022.09.27 (Rev.2)

Product Name : DYNEX PEI

1. Chemical Product and Company Identification

- **Product Name** : DYNEX PEI
- **Chemical Name** : POLYETHERIMIDE
- **CAS NO** : 61128-46-9 (POLYMER)
- **Product Use** : Engineering Plastic Stock Shape for Machining
- **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

- **GHS classifications** : Not a hazardous substance or mixture.
- **GHS label elements** : Not a hazardous substance or mixture.
- **Emergency overview**
 - NFPA Ratings : Health = 0, Flammability = 1, Reactivity = 0
- **Eye** : Mechanical irritations is possible.
- **Skin** : Hot and molten material has the potential to cause thermal burns.
- **Inhalation** : Shapes not respirable.
- **Ingestion** : No specific information available on the product.

3. Composition, information on Ingredients

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

4. First Aid Measures

- **Eye**
 - Immediately flush eyes with plenty of water.
 - Seek medical attention if discomfort persists.
- **Skin**
 - If hot and molten PEI contact skin, cool rapidly with cold water.
 - If PEI is stuck to skin, do not remove, and seek medical attention. And allow adhered PEI to come off naturally.
- **Inhalation**
 - PEI is not likely to be inhaled due to physical form.
 - When gas from molten PEI is inhaled, remove to fresh air.

o Ingestion

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

o Note to physicians

- Processing vapors may cause irritation to the eyes, skin and respiratory tract. In cases of severe exposure, nausea and headache can also occur.

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

- Suitable extinguishing media : Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : Water stream as it may scatter and spread fire

o Special hazards arising from the substance or mixture

- Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, nitrogen oxides.

o Firefighting instructions

- Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear(bunker gear). Product burns with a very hot, but very faint blue flame. Water, foam and dry chemical may cause damage to electrical equipment

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.

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.
- **Inhalation** : A NIOSH approved respirator is recommended. If material is being burned wear an organic respirator.

o Exposure guidelines

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

9. Physical and Chemical Properties

- Appearance** : Solid
- Smell** : None
- PH** : Not applicable
- Water solubility** : Insoluble
- Boiling point** : Not applicable
- Melting point** : This product does not exhibit a sharp melting point, but softens gradually over a wide temperature
- Vapor pressure** : Not applicable
- Specific gravity** : 1.26 ~ 1.30g/cm³

10. Stability and Reactivity

- Chemical stability and hazardous reactions** : Stable under recommended storage conditions. Stable at normal ambient temperature and pressure., Hazardous polymerisation does not occur. No dangerous reaction known under conditions of normal use.
- Condition to avoid** : To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous.
- Incompatible materials** : No special restrictions on storage with other products.
- Hazardous decomposition products** : Process vapors under recommended processing conditions may include trace levels of ,hydrocarbons, phenols, alkylphenols, diarylcarbonates .

11. Toxicological Information**o Acute toxicity**

- Acute oral toxicity : Remarks > 5000mg/kg (estimated)
- Acute dermal toxicity : Remarks > 2000mg/kg (estimated)

- **Skin corrosion/irritation** : Not irritating to the skin.
- **Serious dye damage/irritation** : Particulates can be mechanically irritating to the eyes.
- **Respiratory or skin sensitization** : Not expected to be a sensitizer.
- **Germ cell mutagenicity** : Not expected to be a germ cell mutagen.
- **Carcinogenicity** : Not classifiable as carcinogen to humans.
- **Reproductive toxicity** : There aren't known reproductive toxicity effects.
- **Aspiration hazard** : No data available. Not expected to be an aspiration hazard.

12. Ecological Information

- **Ecotoxicity** : No data available.
- **Persistence and degradability** : No data available.
- **Bioaccumulative Potential** : No data available.
- **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

- **IATA-DGR** : Not regulated as a dangerous good.
- **IDDG-Code** : Not regulated as a dangerous good.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** :
Not applicable for products as supplied
- **UNRTDG** : Not regulated as a dangerous good.

15. Regulatory Information

- **TSCA** : All the ingredients are listed in the TSCA inventory or are compliant with the TSCA polymer exemption rule.
- **SARA 302/304** : No extremely hazardous substances.
- **SARA 313** : This product is 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.

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.

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