



## ***I. Product and Company Identification***

**Trade Name:** Pyramid II2000, II4000

**Part Number:** N/A

**Form:** Compounded Pellet or Powder

**Chemical Family:** Polymer Resin

**Manufacturer:** Polymics Ltd.  
2215 High Tech Road, State College, PA 16803  
Tel: 814-357-5860  
Fax: 814-357-5863

**Emergency Telephone:** Polymics, Ltd. 814-357-5860

## ***II. Composition & Information on Ingredients***

<b>Substance</b>	<b>CAS #</b>	<b>wt %</b>	<b>Exposure Limit</b>
polyetherimide	-	100%	No data available.



### III. Hazards Identification

**Hazard Rating:**

<b>Health</b>	<b>0</b>
<b>Flammability</b>	<b>1</b>
<b>Reactivity</b>	<b>0</b>

**Potential Physical Hazards**

**Slip Hazard:** Spilled material may create a slipping hazard.

**Potential Personal Hazards**

**Skin:** Molten plastic can cause severe burns to uncovered skin. Grease-like fume condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

**Eyes:** Dust or fines from pellets or machining can cause irritation and injury.

**Inhalation:** Exposure to fumes from melt processing can cause "polymer fume fever." Sever over-exposure may result in nausea, headache, chills, and fever. Seek medical help immediately. Particulate can irritate upper respiratory passages.

**Ingestion:** Seek immediate medical attention.

All ingredients not precisely identified are proprietary or non-hazardous. Any hazardous constituents are wetted by the polymer system, and therefore present no likelihood of exposure under normal conditions of processing and handling.



## **IV. First Aid Measures**

**Skin:**

Not anticipated under normal conditions. In case of molten product to skin contact, immerse and/or flush affected area with large amounts of cold water. Do not peel off. Seek medical attention immediately.

**Eyes:**

If material gets in eyes, flush with water for at least 15 minutes. Have eyes examined and treated by medical physician.

**Inhalation:**

Not anticipated under normal conditions. Flu-like symptoms are expected if thermal decomposition products are inhaled. Move victim to fresh air. Chills, fever, headache, shortness of breath, and coughing are expected. Symptoms will subside within 24-48 hours.

**Ingestion:**

Not anticipated under normal conditions. If material is ingested, do not induce vomiting. Seek immediate medical attention.

## **V. Fire-Fighting Measures**

**Suitable Extinguishing Media:**

Water spray and foam. Carbon dioxide or dry chemical is not recommended because their lack of cooling capacity may permit re-ignition.

**Unusual Fire & Explosive Hazards:**

Material requires a continuous flame source to ignite. Not sensitive to mechanical impact but is sensitive to static discharge under dust cloud conditions. Hazardous combustion products include intense heat, smoke, carbon dioxide, carbon monoxide, and hydrocarbon fragments.

**Special Precautions for Fire-Fighters:**

Use of self contained breathing apparatus and protective clothing is required. See section 3 for additional info on hazards.

## **VI. Accidental Release Measures**

**Personal Precautions:**

No special precautions required.

**Environmental Precautions:**

No special precautions required.



**Method for Clean-up:** Sweep or pick up and dispose of in a solid waste container.

## ***VII. Handling & Storage***

### **Handling**

During machining of stock shapes, evacuate chips and dust to prevent slipping hazard. Prevent dust accumulation and bond, ground, vent and use other explosion relief provisions in accordance with accepted engineering practices.

### **Storage**

Store in cool dry place. Avoid excessive heat and ignition sources. Do not store near food areas.

## ***VIII. Exposure Control / Personal Protection***

### **Exposure Controls**

#### **Fire & Explosion:**

Prevent build-up of dust or situations that could create a dust-cloud, which could be ignited by static discharge.

#### **Ventilation:**

Ensure good ventilation or exhaust if there is the possibility of fumes being evolved. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.

**Exposure Guidelines/Limits:** Not applicable.

### **Personal Protection**

#### **Respiratory Protection:**

None required unless material is processed outside of set range. See section X.

#### **Hand Protection:**

Gloves in case of frequent contact with hot material. Use chemically protective gloves when cleaning fume condensates.



**Eye Protection:** Safety glasses with side shields or chemical goggles. Use full-face shield when cleaning processing fume condensates from hoods, ducts, and other surfaces.

**Body Protection:** Long sleeve shirt and full pants are recommended to avoid possibility of hot material coming into contact with skin.

## IX. Physical & Chemical Properties

<b>Appearance:</b>	Amber pellet or dark yellow powder	<b>Specific Gravity:</b>	N/A
<b>Physical State:</b>	Solid pellet or powder	<b>pH:</b>	N/A
<b>Boiling Point:</b>	N/A	<b>Solubility In Water</b>	Negligible
<b>Melting Point:</b>	640 - 725°F	<b>Vapor Pressure:</b>	Negligible
<b>Thermal Decomposition:</b>	>750°F	<b>Odor:</b>	Slight Odor

## X. Stability & Reactivity

**Stability:** Material is stable under normal circumstances.

**Hazardous Decomposition Products:** Hazardous combustion products include intense heat, smoke, carbon dioxide, carbon monoxide, and hydrocarbon fragments. May include trace levels of phenols and orthodichlorobenzene.

**Conditions to Avoid:** Heat > 750 °F may cause decomposition.

## XI. Toxicological Information

**Acute Effects:** Oral LD50 Rat > g/kg (estimated from tests on similar materials). Dermal LD50 (rabbit) > 2g/kg, estimated. Not expected to be a skin irritant or skin sensitizer. See section III as well.

**Delayed Effects:** No data available.



**Toxicity of Product:** Non-toxic when used within recommended guidelines.

## ***XII. Ecological Information***

This material has no known harmful effects on the environment, however it is not biodegradable.

## ***XIII. Disposal Considerations***

**Residual Waste:** Disposal must conform with local, state, and federal regulations. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.

## ***XIV. Transport Information***

**Domestic Regulations:** Not applicable.

**International Regulations:** Not applicable.

## ***XV. Regulatory Information***

This product is in compliance with the rules and orders of TSCA

There are no SARA 313-listed chemicals in this product.



## ***XVI. Other Information***

Not applicable.

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