

**SUPPLIED BY THE ENSINGER - HYDE COMPANY**

**Material Safety Data Sheet**

EMERGENCY TELEPHONE: 856-227-0500

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**TRADE NAME:** Hydrel PEI-7

**CHEMICAL NAME:** polyetherimide with graphite nanotubes

**Components:**

Polyetherimide (CAS# 61128-46-9)

**Threshold Limit Value (8 hr)**

No values has been established.

Graphite Nanotubes (CAS# 7440-44-0)

No values have been established for graphite nanotubes. 10 mg/m<sup>3</sup> established for graphite.

Proprietary Metal Oxide Catalyst

10 mg/m<sup>3</sup> for similar materials

Components not precisely identified are proprietary. All components appear on TSCA.

**Physical Data**

<i>Boiling Point:</i>	Not Applicable
<i>VAP Press:</i>	Not Applicable
<i>VAP Density:</i>	Not Applicable
<i>% Volatile by Volume:</i>	< 0.1
<i>Water Solubility:</i>	Insoluble
<i>Specific Gravity:</i>	1.26
<i>Melt Point</i>	wide softening range
<i>Vicat Softening Point</i>	426 F
<i>Appearance:</i>	Black
<i>Odor:</i>	slight

**Fire and Explosion Data**

<i>Flash Point:</i>	None
<i>Method Used:</i>	N/A
<i>Autoignition Temperature:</i>	1000 F estimated
<i>Extinguishing Media:</i>	Water, fog, foam, CO <sub>2</sub> , dry chemical
<i>Hazards:</i>	No data given

*Fire-fighting Equipment:* Use a positive-pressure self-contained breathing apparatus to prevent exposure to hazardous decomposition products generated under fire conditions.

### **Reactivity Data**

*Stability:* (Conditions to Avoid): Do not exceed recommended melt temperature  
*Incompatibility:* (Specific materials to avoid): None known  
*Hazardous Decomposition Products:* Carbon Monoxide, Carbon Dioxide, trace levels of orthodichlorobenzene and phenol  
*Hazardous Polymerization:* Will not occur

### **Environmental and Disposal Information**

*Disposal Method:* Incinerate or dispose of in an approved landfill in accordance with all applicable federal, state, and local regulations.

### **Health Hazard Data**

*Acute:* None  
*Chronic:* None.  
*Signs and Symptoms of Exposure:* Upper respiratory irritation, gastrointestinal, muscle spasms, slow pulse, extra-systoles hypokalema, skin and eye irritation, burns.  
*Medical Conditions Aggravated by Exposure:* None known  
*Chemicals listed as Carcinogens or Potential Carcinogens:*  
National Toxicity Program - No I. A. R. C.- No OSHA - No  
*Emergency and First Aid Procedure:* Seek medical attention if any abnormal conditions persist.

### **First Aid**

*Eyes:* Irrigate immediately with water for at least 15 minutes. Mechanical effects only.  
*Skin:* Wash off in flowing water or shower. If redness, itching or a burning sensation develops, get medical attention. For thermal burns, cool quickly with water and get medical attention.  
*Ingestion:* No adverse effects anticipated by this route of exposure incidental to proper industrial handling. Drink water do not induce vomiting.  
*Inhalation:* Handle as you would the inhalation of dust, terminate exposure  
*Notes to Physician:* No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

### **Handling Precautions**

No special handling or storage procedures. Avoid creation of dust or particles. Wash hands before eating, drinking or smoking. Collect particles with a dust collector or a vacuum with a heavy duty filter.

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