

**EPICENTRE Biotechnologies**  
**726 Post Road, MADISON WI 53713**  
**Emergency Tel: 608-258-3080 or 800-284-8474 8:00 AM-4:30 PM Central Time**

## MATERIAL SAFETY DATA SHEET

Effective: 08/2010

### Section 1: Chemical Identification

**Product:** Polyethylene glycol; a component of catalog numbers C905ML, and PMX51050

### Section 2: Composition and Information on Hazardous Ingredients

<u>Component</u>	<u>CAS No</u>	<u>% Wt</u>	<u>SARA</u>
Polyethylene glycol (PEG)	25322-68-3	10-50%	No

### Section 3: Hazards Identification

HMIS Rating: Health: 0 Flammability: 0 Reactivity: 0  
 NFPA Rating: Health: 0 Flammability: 0 Reactivity: 0

### Section 4: First Aid Measures

**Eyes:** flush with copious water for at least 15 minutes and get medical attention.  
**Skin:** flush with copious water followed by thorough soap and water washes. If adverse signs or symptoms appear, get medical attention.  
**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Rest and keep warm. If any adverse signs or symptoms appear, get medical attention.  
**Ingestion:** Flush mouth with water, insuring rinse is not swallowed. Give water (1/2 pint) to drink to dilute in stomach and get medical attentions.

### Section 5: Fire Fighting Measures

**Flash Point (method used):** N/A  
**Flammable limits (method used)**  
**Autoignitions point:** 581°F **LEL:** N/A **UEL:** N/A  
**Extinguishing Media:** Water spray, dry chemical powder, alcohol or polymer foam.  
**Special fighting Procedures:** Wear full protective equipment, including a self-contained breathing apparatus.  
**Unusual fire or explosion hazards:** Emits toxic fumes when heated to decomposition. Can react with oxidizing agents.

### Section 6: Accidental Release Measures

Wear appropriate protective clothing. Dike material with a suitable inert absorbent. Place in waste container. Avoid contact with skin and eyes. Wear appropriate protective clothing. Dike material with a suitable inert absorbent. Place in waste container. Avoid contact with skin and eyes.

### Section 7: Handling and Storage

**Work/Hygienic practices:** Avoid repeated exposure and contact with skin, eyes and clothing  
**Precautions to be taken in handling and storing:** Keep tightly closed. Store in a freezer without a defrost cycle at -20°C. To protect material, store away from oxidizing materials.  
**Other Precautions:** Instruct others to keep at a safe distance. PEG may have solvent action on some plastics.

### Section 8: Exposure Controls/Personal Protection

**Respiratory protection:** Government approved respirator  
**Skin:** Wear chemical resistant gloves and chemical safety goggles.

## Section 9: Physical and Chemical Properties

**Chemical Formula:** Liquid polymer of general formula  $H(OCH_2CH_2)_nOH$ , where  $158 < n < 204$ .

**Molecular Weight:** 8,000 (average)

**Boiling Point:** N/A

**Vapor Pressure (mm Hg):**  $< .01$  mm @ 20°C

**Vapor Density (air = 1):**  $> 1$

**Solubility in water:** soluble.

**Appearance and odor:** clear, odorless

**Specific Gravity:** 1.027

**Melting Pt.:** N/A

**Evaporation Rate (butyl acetate =1):**

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## Section 10: Stability and Reactivity

**Stability:** Stable

**Incompatibility:** Strong oxidizing agents

**Hazardous decomposition products:** carbon monoxide and carbon dioxide

**Hazardous polymerization:** Will not occur

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## Section 11: Toxicological Information

**Health hazards:** RTECS # TQ3500000. Only selected RTECS (Registry of Toxic Effects of Chemical Substances) data is presented here.

See actual entry in RTECS for complete information.

### Toxicity Data

**Threshold limit value (TLV/TWA):** N/A

**LD<sub>50</sub> (oral in rat):**  $> 50$  g/kg

**LD<sub>50</sub> (ipr in rat):** N/A

### Irritation data:

Skin (rabbit) 500 mg/24 hr mild

Eye (rabbit) 500 mg/24 hr mild

**Carcinogenicity:** N/A

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## Section 12: Ecological Information

No data available.

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## Section 13: Disposal Considerations

Dispose material and container in accordance with appropriate federal, state and local laws and regulations. Recover and recycle if possible. Processed material may require different disposal methods.

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## Section 14: Transport Information

No special considerations are known. Non-hazardous for Air transport (IATA)

Non-hazardous for transport (DOT). No proper shipping name.

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## Section 15: Regulatory Information

Not SARA listed. Canada WHMIS: classified in accordance with CPR. DSL: Yes NDSL: No

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## Section 16: Other Information

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