

**TECHNICAL DATASHEET**

The enclosed Material Safety Data Sheet (MSDS) presents data applicable for the raw materials used in the preparation of the membrane box and is based on information obtained from the raw material supplier.

The toxicity information indicates that adverse effects are unlikely to result from exposure to these materials during industrial handling. They are unlikely to cause eye or skin irritation and are unlikely to cause any adverse systemic injury from skin absorption, oral injection or inhalation.

**Section 1: Supplier Information**

Common Name: Transparent Membrane Box  
Supplier: Gel-Pak  
City/State/Zip: Hayward, CA 94544  
Phone: 1-510-576-2220

**Section 2 :General Information**

Common Name: Membrane Box  
Main Ingredient: Polystyrene + Proprietary Membrane Information  
Product CAS #: 9003-53-6  
Un No: 2211

**Section 3: Hazards Identification**

Eyes: Mild irritation  
Skin Contact: Short exposure - no irritation; repeated prolonged exposure (especially if confined) - mild irritation, possibly a mild superficial burn.  
Skin Adsorption: Not likely to be absorbed in toxic amounts; possibly weak sensitizer  
Ingestion: Low single dose toxicity  
Inhalation: No guide established; considered to be low hazard from inhalation  
Systemic & Other Effects: None known

**Section 4: First Aid Measures**

Eyes: Flushing the eye immediately with water for 15 minutes is a good safety practice. Physician should stain for evidence of corneal injury.  
Skin: Contact may cause slight irritation. Wash off in flowing water or shower. Wash clothing before reuse. Treat as any contact dermatitis. If burn is present, treat as any thermal burn.  
Ingestion: Low in toxicity. Induce vomiting if large amounts are ingested.  
Inhalation: Remove to fresh air if effects occur. Consult medical personnel.

Systemic & Other Effects: Human effects not established. No specific antidote.  
Treatment based on sound judgment of physician and the individual reactions of the patient.

### **Section 5: Fire Fighting Measures**

Extinguishing Media: Water fog  
Special Firefighting Methods: Not applicable  
Unusual Fire & Exploding Hazards: The dried resin is flammable similar to wood. Burning dry resin emits dense, black smoke. Suspended material is not flammable.

### **Section 6: Accidental Release Measures**

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

*Flush area with water immediately. Avoid unnecessary exposure and contact.*

### **Section 7: Handling and Storage**

Ventilation: Good room ventilation usually adequate for most operations.  
Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear NIOSH approved dust respirator.  
Storage: Keep at room temperature. No safety problems known.

### **Section 8: Exposure Controls / Personal Protection**

Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH approved dust respirator.  
Wash / Hygienic Practices: Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.

### **Section 9: Physical and Chemical Properties**

Boiling Point 350°C  
Tg: 80°C  
Density: 0.95 - 1.05 g/cc  
Solubility: emulsion  
Appearance: milky white liquid emulsion

### **Section 10: Stability and Reactivity**

Stability: Stable under normal conditions. See Section 7.  
Incompatibility: My irreversibly aggregate if frozen at 0°C / 32°F. Addition of chemicals may cause coagulation.  
Hazardous Combustion or Dried resin is combustible. If burned, produces a dense, black smoke and noxious Decomposition Products: gasses (carbon monoxide and hydrocarbons).

### **Section 11: Toxicological Information**

No data

### **Section 12: Ecological Information**

No data

**Section 13: Disposal Considerations**

In large amounts, will color streams and rivers. Has practically no biological oxygen demand, but will settle out and form sludge or film. Large amounts may plug up sanitary sewers. Divert to pond or burn solid waste in an adequate incinerator.

**Section 14: Transportation Data**

No data

**Section 15: Regulatory Information**

No data