

# Material Safety Data Sheet

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## Section 1: Chemical Product and Company Identification

Date Prepared: 12/02/2008  
Part Name: **Internally Dyed or Fluorescent Polystyrene**  
Supplier: Bangs Laboratories, Inc. / A Division of Polysciences, Inc.  
9025 Technology Drive  
Fishers, Indiana 46038

## Section 2: Composition / Information on Ingredients

Plain or carboxylated polystyrene with 0.1-1.0% dyestuff (black, blue, red, yellow, fluorescent, etc.) suspended in water.

## Section 3: Hazard Identification

Some dyes can be more harmful in their concentrated form than when incorporated into polymer microspheres. Although the level of health hazard posed by dyed microspheres has not been tested, we believe that the Hazards Identification and First Aid Measures sections below are appropriate for dyed microspheres.

Eyes: mild irritation  
Skin: 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 a weak sensitizer.  
Ingestion: low single dose toxicity  
Inhalation: no guide established; considered to be low hazard from inhalation  
Systemic: 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: 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 Procedures: not applicable  
Unusual Fire & Explosion Hazards: Suspended material is not flammable. The dried resin is flammable similar to wood. Burning dry resin emits dense, black smoke.

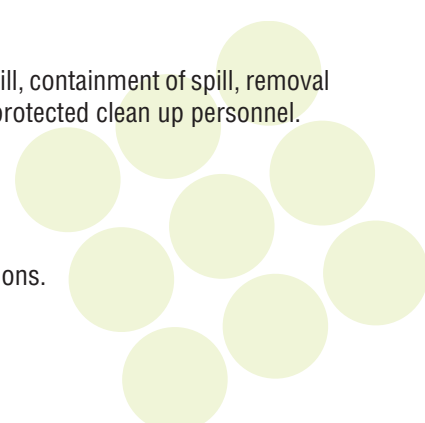
## Section 6: Accidental Release Measures

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 is adequate for most operations.



Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH approved dust respirator.

Storage: Keep from freezing. Store at 2-8°C. Material may develop bacteria odor on long-term storage. Keep container closed and protected from light. No safety problems known.

### **Section 8: Exposure Controls and 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: 100°C/212°F

Glass Transition Temperature: 95°C

Density: 0.95-1.05 g/cc

Solubility: emulsion

Appearance & Odor: liquid emulsion will have a dye specific color

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

Stability: Stable under normal conditions. See Section 7.

Incompatibilities: May irreversibly aggregate if frozen at 0°C/32°F. Addition of chemicals may cause coagulation.

Hazardous Combustion or Decomposition Products: Dried resin is combustible. If burned, produces a dense, black smoke and noxious gasses (carbon monoxide and hydrocarbons).

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

no data

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

no data

### **Section 13: Disposal Considerations**

Will color streams and rivers to a milky white. Has practically no biological oxygen demand, but will settle out and form sludge or film. May plug up sanitary sewers. Divert to pond or burn solid waste in an adequate incinerator. Flush sewers with large amounts of water.

### **Section 14: Transport Information**

no data

### **Section 15: Regulatory Information**

no data

### **Section 16: Other Information**

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**END OF MSDS**

