

Material Safety Data Sheet

9025 Technology Dr. • Fishers, IN 46038-2886
800-387-0672 • 317-570-7020 • Fax 317-570-7034
email:info@bangslabs.com • www.bangslabs.com



Section 1: Chemical Product and Company Identification

Date Prepared: 11/11/2005
Part Name: **Dyed 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 suspended in water with 0.1-1.0% dyestuff (black, blue, red, yellow, fluorescent, etc.).

Section 3: Hazards 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 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: Suspended material is not flammable. The dried resin is flammable similar to wood. Burning dry resin emits dense, black smoke.

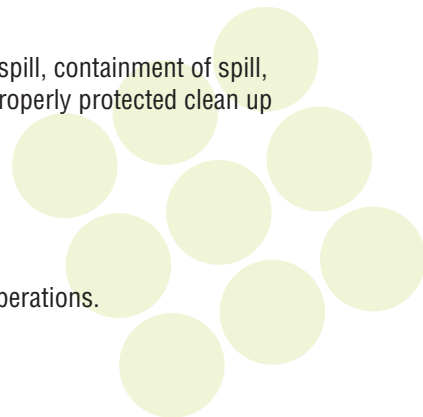
Section 6: Accidental Release Measures

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 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 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 / Personal Protection

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

Incompatibility: 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: Transportation Data

no data

Section 15: Regulatory Information

no data

Section 16: Other Information

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END OF MSDS

