

Material Safety Data Sheet

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Section 1: Chemical Product and Company Identification

Date Prepared: 12/21/2011
Catalog Code: **488, 555, 555p, 647, 822, 823, 827, 828**
Product: **Quantum™ MESF**
Supplier: Bangs Laboratories, Inc. / A Division of Polysciences, Inc.
9025 Technology Drive
Fishers, Indiana 46038

Section 2: Composition / Information on Ingredients

<u>Item#</u>	<u>Name</u>	<u>CAS#</u>	<u>% in Product</u>
1	Solid polymer microspheres composed of: Polystyrene or polystyrene divinylbenzene or polymethylmethacrylate containing encapsulated dyes	009003536 009003707 009011147 Proprietary	<0.1-10.0 <0.1-1.0
2	Sodium azide	026628228	0.09
3	Gelatin	009000708	0.01
4	Tween® 80	009005656	0.01
5	Sodium chloride	007647145	<1.0
6	Water	007732185	60.0-95.0

Section 3: Hazards Identification

Low hazard for usual industrial or commercial handling.

Hazard Ratings: These ratings are Bangs Laboratories' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49). If no data is listed the information is not available.

Health	Flammability	Reactivity
0	0	0

Section 4: First Aid Measures

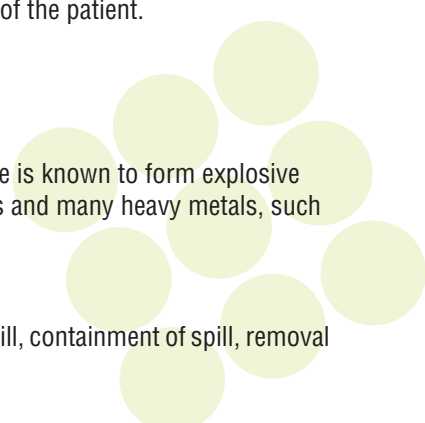
Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
Skin: In case of contact, immediately wash skin with copious amounts of water for at least 15 minutes.
Ingestion: Contact a physician immediately.
Inhalation: Remove to fresh air. Consult medical personnel.
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: n/a
Special Firefighting Procedures: n/a
Unusual Fire & Explosion Hazards: Suspended material is not flammable. Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, and silver.

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.

Wear vinyl gloves, soak up spill in paper toweling, and rinse area with water. Put all generated waste into an approved container and dispose of as waste. Observe all applicable federal, state, and local disposal laws.

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: Store between 2-8°C. Keep refrigerated. Do not freeze. Keep container closed and protected from light.

Section 8: Exposure Controls and Personal Protection

Respiratory Protection: None normally needed. See Section 7.
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: n/a
Density: ~1.05 g/cc
Solubility: dispersible in water
Appearance & Odor: colorless, odorless, clear liquid suspension

Section 10: Stability and Reactivity

Incompatibilities: Fluorescent dyes may photobleach when exposed to light. Product may be non-reactive in strong acid or base. Product may irreversibly aggregate if frozen.
Hazardous Decomposition Products: Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, and silver.

Section 11: Toxicological Information

To the best of our knowledge, the chemical, physical, and toxic properties of this product have not been thoroughly investigated. The microspheres contain organic fluorescent dyes which are suspected to be carcinogenic agents. Sodium azide is known to be highly toxic.

Acute Effects: Contact with sodium azide may result in eye and skin irritation. Ingestion may result in nausea, headache, and vomiting.
Chronic Effects: Sodium azide can cause cancer, or alter genetic material. Target organs include heart, nerves, and brain.

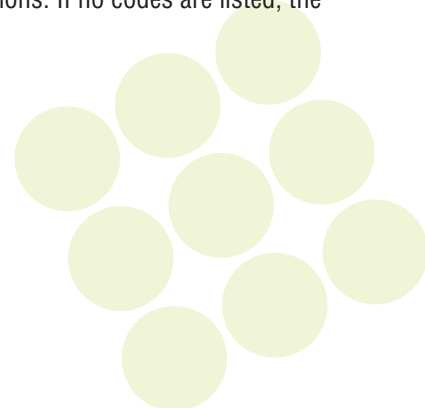
Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed, the material must be disposed in compliance with all Federal, State, and Local Regulations.

<u>CAS#</u>	<u>Waste Code</u>	<u>Regulated Name</u>
009003536	not listed	not listed
009003707	not listed	not listed
009011147	not listed	not listed
026628228	P105	Sodium azide
009000708	not listed	not listed
009005656	not listed	not listed
007647145	not listed	not listed
007732185	not listed	not listed



Section 14: Transport Information

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

Section 15: Regulatory Information

Prop 65: Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

<u>CAS#</u>	<u>Column A</u>	<u>Column B</u>
009003536	no	no
009003707	no	no
009011147	no	no
026628228	no	no
009000708	no	no
009005656	no	no
007647145	no	no
007732185	no	no

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III): This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

<u>CAS#</u>	<u>Regulated Name</u>	<u>de minimis conc. %</u>	<u>Rep. Thres.</u>
009003536	not listed	not listed	not listed
009003707	not listed	not listed	not listed
009011147	not listed	not listed	not listed
026628228	Sodium azide (NaN ₃)	1.0	not listed
009000708	not listed	not listed	not listed
009005656	not listed	not listed	not listed
007647145	not listed	not listed	not listed
007732185	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs: This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

<u>CAS#</u>	<u>Regulated Name</u>	<u>TPQ (pounds)</u>	<u>EHS-RQ (pounds)</u>
009003536	not listed	not listed	not listed
009003707	not listed	not listed	not listed
009011147	not listed	not listed	not listed
026628228	Sodium azide (NaN ₃)	500	1,000
009000708	not listed	not listed	not listed
009005656	not listed	not listed	not listed
007647145	not listed	not listed	not listed
007732185	not listed	not listed	not listed

Section 16: Other Information

BANGS LABORATORIES, INC. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

BANGS LABORATORIES, INC. makes no representations or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, BANGS LABORATORIES, INC. will not be responsible for damages resulting from the use of or reliance upon this information.

END OF MSDS

