



Particle technology makes huge chance

## Material Safety Data Sheet

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Polymer Microsphere Suspension

Contents: Polymer microspheres suspended in water. Polymers include polystyrene, polystyrene divinylbenzene (PSDVB), or other styrene Polymers

Supplier: Shanghai Huge Biotechnology Co., Ltd

City, Contry, Zipcode: SHANGHAI, CHINA, 201201

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

| Component: Name            | CAS Number: | Percentage:   | EINECS/ELINCS |
|----------------------------|-------------|---------------|---------------|
| polystyrene or polystyrene | 9003-53-6   | <0.1-10       | N/A           |
| Divinylbenzene             | 9003-70-7   |               | N/A           |
| water                      | 7732-18-5   | 90-99.9+      | 231-791-2     |
| dispersant/surfactant      | Proprietary | <0.5 (if any) | N/A           |
| Preservative               | Proprietary | <0.1 (if any) | N/A           |

### SECTION 3 - HAZARD IDENTIFICATION

CAUTION! May cause lung irritation if inhaled. By normal use the product is not regarded as hazardous to health. The product is not classified as flammable or harmful to the environment; may cause eye, skin, digestive track, and respiratory track irritation. The toxicological properties of this material have not been fully investigated. This product is not classified as dangerous in accordance with Directive 1999/45/EC or 67/548/EEC.

### SECTION 4: FIRST AID MEASURES

No first aid measures are indicated.

### SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not considered flammable or explosive. NFPA/HMIS Rating (estimated): Health: 1; Flammability: 0; Instability: 0 PROTECTION FOR FIRE FIGHTERS: Use extinguishing media appropriate for surrounding fire (water, foam, vaporizing liquid or multipurpose dry chemical).

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Areas covered with spilled microspheres may be slippery. If material is spilled or released, cordon off the area. Collect material by wiping the spill area with a paper towel or disposable wipe, and place materials into an appropriate container. Avoid inhaling fine particle dust. Discard collected material in containers suitable for proper disposal.

### SECTION 7 - HANDLING AND STORAGE

Keep tightly sealed to prevent contamination; store between 4 °C to 30 °C unless otherwise



specified on product label or literature. Avoid damaging or puncturing containers. When creating aerosols of fine particles use minimal and directional (away from the user) airflow

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL IDENTIFICATION**

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to gloves and glasses.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|                                 |   |
|---------------------------------|---|
| Formula: mixture                | Vapor Pressure: no data                             |
| Formula Weight: mixture         | Vapor Density: no data                              |
| Boiling Point: no data          | Specific Gravity: 1                                 |
| Melting Point: no data          | pH: no data   |
| Solubility: completely miscible | Appearance: opaque white liquid, which may stratify |

**SECTION 10: STABILITY AND REACTIVITY**

|   |   |
|---|---|
| Chemical Stability: stable                    | Conditions to Avoid: no data              |
| Incompatibility with Other Materials: no data | Hazardous Decomposition Products: no data |
| Hazardous Polymerization: will not occur      |   |

**SECTION 11: TOXICOLOGICAL INFORMATION**

|                     |                          |
|---------------------|--------------------------|
| Acute Data: no data | Subchronic Data: no data |
|---------------------|--------------------------|

**SECTION 12: ECOLOGICAL INFORMATION**

no data

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of any waste residues according to prescribed federal, state, and local guidelines (e.g., to an appropriately permitted chemical waste incinerator)None of the components are on RCRA P& RCRA U Series Wastes list. EWC waste code18 01 05 discard as chemicals and medicines  
Other Information: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the a application for which the product was used.

**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**



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All components of this product are on the TSCA public inventory. Prop 65: Column A identifies

those items which are known to the State of California to cause cancer. Column B identifies those which are known to the State of California to cause reproductive toxicity.

| CAS#      | Column A | Column B |
|-----------|----------|----------|
| 009003536 | no       | no       |
| 026628228 | 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). This list is also referred to as the Toxic Release Inventory (TRI) List.

| CAS#      | Regulated Name | deminimis conc % | Rep Thres. |
|-----------|----------------|------------------|------------|
| 009003536 | not listed     | not listed       | not listed |
| 026628228 | Sodium azide   | 1.0              | not listed |
| 007732185 | not listed     | not listed       | not listed |

SARA Extremely Hazardous Substances and TPQs: This list identifies 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.

| CAS#      | Regulated Name     | TPQ (pounds) | EHS-RQ (pounds) |
|-----------|--------------------|--------------|-----------------|
| 009003536 | not listed         | not listed   | not listed      |
| 026628228 | Sodium azide(NaN3) | 500          | 1,000           |
| 007732185 | not listed         | not listed   | not listed      |

### SECTION 16: OTHER INFORMATION

This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from Huge Biotechnology, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from Huge biotechnology, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.

**End of MSDS**