

## SAFETY DATA SHEET

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Product name: 8 Peak Beads

Catalog number: AE700522

1.2. Use of the substance/mixture:

This material is only for purpose of technical analysis and/or scientific research. The health, toxicological, and eco-toxicological hazards of this substance have not been fully investigated; therefore, this substance must be handled only by, or under close supervision of those qualified in the handling and use of potentially hazardous substances. Not for domestic or food/drug/cosmetic use.

1.3. Supplier

Address: SONY BIOTECHNOLOGY INC.  
1730 North First Street, San Jose, CA 95112 U.S.A.  
Telephone, Fax, E-mail: Voice: +1 800-275-5963, FAX: +1 408-352-4130,  
SBTcustomerservice@sonybiotechnology.com

1.4. Emergency telephone number:

US: +1 800-275-5963 (6:00AM – 5:30PM PT, M-F)

### 2. Hazards Identification

2.1. Classification of the substance or mixture:

Not classified as hazardous according to Regulation (EC) 1272/2008 (CLP/GHS) or Directive 67/548/EEC as amended. Caution: This substance has not been fully tested (EC).

Inhalation (power/mists):

May be harmful if inhaled. May cause upper respiratory tract and mucous membrane irritation.

Skin and Eyes:

May cause skin and eye irritation.

Ingestion:

May be harmful if swallowed.

Environmental:

May be harmful to the environment.

2.2. Label elements:

None required according to regulation (EC) 1272/2008 (CLP/GHS) or Directive 1999/45/EC

### 3. Composition/Information on Ingredients

Refers to content in aqueous solution:

| Name                                  | CAS Number  | EC Number | Regulation (EC) 1272/2008 Hazard class, categ. Code, and hazard statements | Directive 67/548/EEC Class and R phrases | Percent (w/w) approx. |
|---------------------------------------|-------------|-----------|--|--|-----------------------|
| Water                                 | 7732-18-5   | 231-791-2 | Not hazardous  | Not hazardous                            | 99.95%                |
| Polystyrene beads organic dye stained | 9003-53-6   | 500-008-9 | Not hazardous  | Not hazardous                            | 0.02%                 |
| Sodium Azide                          | 26628-22-8  | 247-852-1 | Acute Tox. 2, H300 H310 H330; Aquatic Acute 1 H400; Aquatic Chronic 1 H410 | T+; R28 R32 N; R50-53                    | 0.02%                 |
| Tergitol-type NP-40                   | 127087-87-0 | 500-315-8 | No available data  | Not hazardous                            | 0.01%                 |

#### 4. First Aid Measures

Description of first aid measures

|               |  |
|---------------|--|
| Inhalation:   | Immediate fresh air and rest. Keep under observation and if breathing becomes difficult seek immediate medical attention. Resuscitate if breathing stops.                                |
| Skin contact: | Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.   |
| Eye contact:  | First rinse with plenty of water for at least 10 minutes (remove contact lenses if easily possible), ensure lids remain open during flushing, and then seek immediate medical attention. |
| Ingestion:    | Rinse mouth with water, but do not swallow mouthwash. Do not induce vomiting. Give plenty of water to drink (ONLY IN CONSCIOUS PERSONS). Refer for medical attention.                    |

#### 5. Fire-Fighting Measures

|   |  |
|---|--|
| Main hazard:                                | Forms combustible solid if allowed drying out. Emits corrosive and toxic fumes, including oxides of carbon, and nitrogen during combustion.                      |
| Extinguishing method:                       | Use foam extinguishers or water spray.   |
| Special fire fighting procedure:            | Wear self contained breathing apparatus with full face shield operated in positive pressure mode, MSHA/NIOSH (approved or equivalent), and full protective gear. |
| Unusual fire hazards and explosion hazards: | May produce black acrid smoke if burned.   |

#### 6. Accidental Release Measures

|                      |  |
|----------------------|--|
| General information: | Use protective equipment as detailed in section 8.   |
| Spills/leaks:        | Clean up spills using an absorbent, non-combustible material and gather up placing in a clean closed container for disposal. Do not wash away into sewers. |

#### 7. Handling and Storage

Read the Suppliers' technical data sheet carefully before commissioning or using the product. Store unopened package at 2-8°C in a well ventilated place, out of direct light, away from heat.

#### 8. Exposure Controls / Personal Protection

|                               |   |
|-------------------------------|---|
| Control parameters :          | No components above the 0.1% threshold have specific workplace control parameters assigned to our knowledge.  |
| Local mechanical ventilation: | Not required as supplied, but this is also dependent on other mobile phases and analytes used. Always use a fume cupboard if handling as the dry power or where the liquid component may become airborne. |

##### Personal Protective Equipment

|                         |  |
|-------------------------|--|
| Respiratory protection: | If required to control exposure, use only suitable respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Hand protection:        | Suitable impervious gloves e.g. Nitrile or Neoprene rubber. The selected protective gloves have to conform to EN 374.  |
| Eye protection:         | Safety glasses with side-shields conforming to EN 166  |
| Hygiene measures:       | Avoid contact of contents with skin, eyes, and clothing. Wash hand before breaks and immediately after handling the product.   |

## 9. Physical and Chemical Properties

|                              |  |
|------------------------------|--|
| Physical state               | Dilute suspension of Polystyrene beads stained with organic dye in water with 0.01% NP40 and 0.02% Sodium Azide as preservative. |
| Colour                       | Cloudy   |
| Odour                        | No information available   |
| Odour threshold              | No information available   |
| pH                           | No information available   |
| Vapour pressure              | No information available   |
| Vapour density               | No information available   |
| Viscosity                    | No information available   |
| Boiling point                | 100 °C / 212 °F  |
| Melting point                | No information available   |
| Decomposition temperature °C | No information available   |
| Flash point                  | Not applicable   |
| Evaporation rate             | No information available   |
| Specific gravity             | No information available   |
| Solubility                   | No information available   |
| Log pow                      | No data available  |

## 10. Stability and Reactivity

|                           |   |
|---------------------------|---|
| Stability:                | Stable  |
| Conditions to avoid:      | Extreme heat  |
| Materials to avoid:       | Strong oxidizing agents, bases  |
| Hazardous decomposition:  | Monomer maybe formed if heated to high temperatures. May release toxic fumes including oxides of carbon and nitrogen. |
| Hazardous polymerization: | Will not occur.   |

## 11. Toxicological Information

Caution: to the best of our knowledge, the toxicological properties of these materials have not been fully investigated.

### Routes of Exposure

|                  |  |
|------------------|--|
| Inhalation:      | May be harmful if inhaled.               |
| Skin contact:    | May cause skin irritation.               |
| Skin Absorption: | May be harmful if absorbed through skin. |
| Ingestion:       | May be harmful if swallowed.             |

## 12. Ecological Information

To the best of our knowledge, the ecotoxicological properties of this mixture have not been fully investigated. However, the liquid may be harmful to the environment depending on the quantity and dilution involved.

## 13. Disposal Considerations

Methods of disposal must meet all local, federal and state laws.

## 14. Transportation Information

IATA, IMO/IMDG, ADR/RID, US-DOT: Not classified as hazardous for any mode of transport.

## 15. Regulatory Information

US (TSCA): Manufactured for Research and development only. Note: Chemical substances that are manufactured or imported in small quantities solely for the use in Research and Development are not subject to the notification requirements of the Toxic Substance Control Act (TSCA), 15 USC 2604 (h) et seq. Reference – 40CFR720.36

CAS# 026628-22-8 is listed on the TSCA Inventory.

## 16. Other Information

### 16.1 Text of hazard category codes, hazard statements, and R-phase(s) mentioned in Section 3

|  |  |
|--|--|
| Acute Tox 2. Acute toxicity category 2:                                      | H300 Fatal if swallowed.<br>H310 Fatal in contact with skin.<br>H330 Fatal if inhaled. |
| Aquatic Acute 1. Hazardous to the aquatic environment, acute, category 1     | H400 Very toxic to aquatic life.   |
| Aquatic Chronic 1. Hazardous to the aquatic environment, chronic, category 1 | H410 Very toxic to aquatic life with long lasting effects.                             |

T+ Very Toxic  
R28 Very toxic if swallowed  
R32 Contact with acids liberates very toxic gas  
N. Dangerous to the environment  
R50-53 Very toxic to aquatic organisms, may cause long-term adverse guide for this product.

### 16.2 Further information

This SDS was created in good faith based on our current knowledge at the time of creation and revision, but no warranty is made on the information, hazards, and toxicity data described. Prior to use, be sure to examine the latest information, rules, laws, and regulations of your country or region concerning hazards and harmful effects as well as regarding equipment to be used, and accord the highest priority to them.

The precautions described in this document assume normal handling of the product. When handling the product in an unconventional manner, be sure to take appropriate safety measures according the situation and take sufficient precautions.

All chemical products should be handled assuming the presence of "unknown hazards and harmful effects" and with the knowledge that such hazards will vary greatly depending on the usage environment, handling method, and conditions and period of storage. All handling of the product, including use, unpacking, storage, and disposal, should be performed only by specialists with professional knowledge and experience or under close supervision of such qualified specialists. It is the sole responsibility of the user to ensure and provide proper safe use conditions.

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