



# NanoCollect® Calibration Beads

## Section 1: Chemical Product and Company Identification

### 1.1 Product Identifiers

| Catalog No. | Product Name                  |
|-------------|-------------------------------|
| 170111      | NanoCollect Calibration Beads |

### 1.2 Relevant identified uses of substance or mixture and uses advised against

This material is only for purpose of technical analysis and/or scientific research. The health, toxicological, & 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. Identified uses: Lab use.

### 1.3 Details of the supplier of the safety data sheet

Company: NanoCollect Biomedical, Inc.  
9525 Towne Centre Drive, Suite 150  
San Diego, CA 92121  
USA

Telephone: +1 (877) 745-7678

### 1.4 Emergency telephone number

Telephone: +1 (877) 745-7678

## Section 2: Hazardous 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.

Not a hazardous substance or mixture according to EC-directives 1999/45/EC.

Signal Word: Non-hazardous  
Pictogram: None  
Hazard Statement(s):  
H000 Low hazard for normal industrial use.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305B IF IN EYES: Separate eyelids with fingertips.  
P313 Get medical advice/attention.  
P351 Rinse cautiously with water for several minutes.

### 2.2 Hazard Ratings:

These ratings are NanoCollect's 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 |
|--------|--------------|------------|
| 1      | 0            | 0          |



## Section 3: Composition / Information on Ingredients

### 3.1 Refers to content in aqueous solution:

| Item # | Name                                    | CAS Number  | % (w/w) in Product |
|--------|---|-------------|--------------------|
| 1      | Water                                   | 007732185   | >89.81%            |
| 2      | Solid polymer microspheres composed of: |             |                    |
|        | Polystyrene or                          | 009003536   | <10%               |
|        | Polystyrene divinylbenzene or           | 009003707   |                    |
|        | Polymethylmethacrylate and              | 009011147   |                    |
|        | Encapsulated dyes                       | Proprietary |                    |
| 3      | Surfactant Tween® 20                    | 009005645   | ≤0.1%              |
| 4      | Sodium Azide                            | 026628228   | ≤0.09%             |

## Section 4: First Aid Measures

**Inhalation:** Remove to fresh air if effects occur. Consult medical personnel.

**Skin Contact:** In case of contact, immediately wash skin with copious amounts of water for at least 15 minutes.

**Eye Contact:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**If Swallowed:** Contact physician immediately.

**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

### 5.1 Extinguishing Method

Not applicable.

### 5.2 Special hazards arising from the substance or mixture

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, & silver.

### 5.3 Advice for fire-fighters

Not applicable.

### 5.4 Further Information

No Data available

## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Any information given below is considered to be in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition source 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.

### 6.2 Environmental precautions

No special measures are indicated.



**6.3 Methods and material for containment and cleaning up**  
No special measures are indicated.

**6.4 Reference to other sections**  
For disposal see section 13.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

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

### 7.2 Conditions for safe storage, including any incompatibilities

**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 at 2-8°C. Keep refrigerated. Do not freeze. Keep container closed and fluorescent particles protected from light.

## Section 8: Exposure Controls and Personal Protection

### 8.1 Control parameters

**Respiratory Protection:** None normally needed.

**Wash / Hygienic Practices:** Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.

### 8.2 Exposure Controls:

None indicated.

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 workplaces and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves. Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not internal immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Boiling Point:** 100 °C / 212 °F

**Density (particles):** ~1.06

**Solubility:** Dispersible in water.

**Appearance:** Translucent or colored liquid suspension; may be whitish or the color of the noted dye; faint or non-detectable odor.

### 9.2 Other safety information:

None.



## Section 10: Stability and Reactivity

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No data available.  |
| <b>Chemical Stability:</b>                 | Stable under recommended storage conditions.  |
| <b>Possibility of Hazardous Reactions:</b> | No data available.  |
| <b>Conditions to Avoid:</b>                | Product may irreversibly aggregate if frozen.   |
| <b>Incompatible Materials:</b>             | No dangerous reaction known under conditions of normal use.   |
| <b>Hazardous Decomposition Products:</b>   | Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, & silver. |

## Section 11: Toxicological Information

- 11.1 Information on toxicological effects:**  
To the best of our knowledge, the chemical, physical, and toxic properties of this product have not been thoroughly investigated. Sodium azide is known to be highly toxic.
- 11.2 Acute Effects:**  
Sodium azide may result in eye and skin irritation. Ingestion may result in nausea, headache, and vomiting.
- 11.3 Chronic Effects:**  
Sodium azide can cause cancer or alter genetic material. Target organs include heart, nerves, and brain.

## Section 12: Ecological Information

No data available.

## Section 13: Disposal Considerations

- 13.1 Waste treatment methods**  
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 of in compliance with all Federal, State, and Local Regulations.

| CAS #     | Waste Code | Regulated Name |
|-----------|------------|----------------|
| 007732185 | not listed | not listed     |
| 009003536 | not listed | not listed     |
| 009003707 | not listed | not listed     |
| 009011147 | not listed | not listed     |
| 009005645 | not listed | not listed     |
| 000151213 | not listed | not listed     |
| 026628228 | P105       | Sodium azide   |

## Section 14: Transport Information

|              |                      |
|--------------|----------------------|
| <b>DOT:</b>  | Not dangerous goods. |
| <b>IMDG:</b> | Not dangerous goods. |
| <b>IATA:</b> | Not dangerous goods. |



## Section 15: Regulatory Information

### 15.1 All components of this product are in 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 |
|-----------|----------|----------|
| 007732185 | no       | no       |
| 009003536 | no       | no       |
| 009003707 | no       | no       |
| 009011147 | no       | no       |
| 009005645 | no       | no       |
| 000151213 | no       | no       |
| 026628228 | no       | no       |

### 15.2 SARA Toxic Release (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 | de minimis conc % | Rep. Thres. |
|-----------|----------------|-------------------|-------------|
| 007732185 | not listed     | not listed        | not listed  |
| 009003536 | not listed     | not listed        | not listed  |
| 009003707 | not listed     | not listed        | not listed  |
| 009011147 | not listed     | not listed        | not listed  |
| 009005645 | not listed     | not listed        | not listed  |
| 000151213 | not listed     | not listed        | not listed  |
| 026628228 | Sodium azide   | 1.0               | not listed  |

### 15.3 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) |
|-----------|----------------------------------|--------------|-----------------|
| 007732185 | not listed                       | not listed   | not listed      |
| 009003536 | not listed                       | not listed   | not listed      |
| 009003707 | not listed                       | not listed   | not listed      |
| 009011147 | not listed                       | not listed   | not listed      |
| 009005645 | not listed                       | not listed   | not listed      |
| 000151213 | not listed                       | not listed   | not listed      |
| 026628228 | Sodium azide (NaN <sub>3</sub> ) | 500          | 1,000           |

## Section 16: Other Information

16.1 **NANOCELLECT BIOMEDICAL, 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.



- 16.2** **NANOCELLECT BIOMEDICAL, INC.** makes no representations or warranties, either expressed or implied, of merchantability or fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, NANOCELLECT BIOMEDICAL, INC. will not be responsible for damages resulting from the use of or reliance upon this information.
- 16.3** **Preparation Information:**  
NanoCelect Biomedical, Inc.  
+1 (977-745-7678

**END OF SDS**

For more information, visit [nanocellect.com](https://nanocellect.com) or email [info@nanocellect.com](mailto:info@nanocellect.com)  
For Technical Support, email [support@nanocellect.com](mailto:support@nanocellect.com)

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