
Section 1: Information

1. Product Identification

1.1. Name: Cellometer Check Validation Bead Solution

1.2. Name: Cellaca Viability Beads

1.3. Catalog Numbers

1.3.1. Cat. No: CCBM-011-2mL

1.3.2. Cat. No: CVB-017-2mL

1.3.3. Cat. No: CFL2-019-1

1.4. Supplier

Nexcelom Bioscience, LLC.

360 Merrimack St., Building 9

Lawrence, MA 01843

Phone Number: 1(978) 327-5340

Hours of Operation: 9am-5pm EST

2. Recommended Use

2.1. Fluorescent Viability Bead Solution is a dual color fluorescent beads mixture and should only be used as a calibration tool for testing the function of Cellometer and Cellaca Image Cytometers

2.2. Fluorescent Viability Bead Solution is not intended to be used as a human or animal diagnostic or therapeutic reagent, it is intended for research use only

2.3. Do not use Fluorescent Viability Bead Solution for any other uses

Section 2: Hazard Identification

1. Hazard Classification

1.1. Non-hazardous Category: Not available

2. Label Elements

2.1. Signal Words: Non-hazardous

2.2. Hazard Statements

2.2.1. H000 Low hazard for normal industrial use

2.3. Precautionary Statements:

2.3.1. P302 + P352 If on SKIN: Wash with plenty of soap and water

2.3.2. P305B If in EYES: Separate eyelids with fingertips

2.3.3. P313 Get medical advice/attention

2.3.4. P351 Rinse cautiously with water for several minutes

2.4. Pictograms:

2.4.1. Not available

2.5. Other Hazards Which Do Not Result in Classification

2.5.1. Restricted to professional users only

2.5.2. Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals (such as: copper, lead, gold and silver)

2.5.3. Sodium azide is known to be highly toxic

- 2.5.4. To the best of our knowledge this product's potential hazardous and toxicological properties have not been thoroughly investigated
- 2.5.5. The following ratings have been provided by Bangs Laboratories, Inc. by their own assessment of the properties of this product using the ANSI/NFPA 704 Standard
 - Health 1
 - Flammability 0
 - Reactivity 0
- 2.5.6. Additional information can be found by consulting the NFPA ratings list (List 325 and List 49)
 - 2.5.6.1.1. If no data is listed, then the information is not available

Section 3: Composition and Information on Ingredients

- 1. Substance: Sodium azide
 - 1.1. Hazardous Component: azide
 - 1.2. Synonyms
 - 1.2.1. No information available
 - 1.3. Hazardous component molecular formula: NaN₃
 - 1.4. Hazardous component molecular weight: 65.009 g/mol

Common Name	Molecular Formula and Weight	CAS Number/IUPAC Name	EC-Number	Impurities and Stabilizers	Percentage
Water	H ₂ O (18.015 g/mol)	007732185	N/A	N/A	≥ 89.81 %
Solid polymer microsphere					
*Polystyrene	N/A	009003536	N/A	N/A	≤ 10 %
*Polystyrene divinylbenzene	N/A	009003707	N/A	N/A	≤ 10 %
*Polymethylmethacrylate	N/A	009011147	N/A	N/A	≤ 10 %
*Functional polymer – DC & FC catalog codes	N/A	Proprietary	N/A	N/A	≤ 10 %
Encapsulated dyes	N/A	Proprietary	N/A	N/A	≤ 10 %
Surfactant (if present)					
*Tween® 20	C ₅₈ H ₁₁₄ O ₂₆ (1227.54 g/mol)	009005645	N/A	N/A	≤ 1 %

*Sodium dodecyl sulfate	NaC ₁₂ H ₂₅ S O ₄ (288.372 g/mol)	000151213	N/A	N/A	≤ 1 %
Proprietary surfactant	N/A	Proprietary	N/A	N/A	≤ 1 %
Sodium azide	NaN ₃ (65.009 g/mol)	026628228	N/A	N/A	≤ 0.09 %

* Possible ingredient dependent on product

Section 4: First-aid Measures

1. Always remove contaminated personnel away from the hazardous area, and to a safe area
2. Most Important Symptoms and Effects
 - 2.1. No information available
 - 2.2. To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated
 - 2.3. Sodium azide is highly toxic
3. Indication of Immediate Medical Attention or Necessary Special Treatment
 - 3.1. Consult a physician if there is any concern of exposure
4. Medical Professionals
 - 4.1. If medical advice or attention is required, present them with this safety data sheet first
 - 4.2. Notes to Physician: Treat as symptoms present
5. Inhalation
 - 5.1. Place affected person in fresh air and in a comfortable position for breathing
 - 5.2. Inhalation of particles are dangerous and breathing may become problematic
 - 5.3. Seek medical advice or attention
6. Skin Contact
 - 6.1. Remove any contaminated clothing from the affected person, and wash the contaminated area with soap and plenty of water for 15 minutes
 - 6.1.1. Wash clothes before re-use
 - 6.2. May cause skin irritation
 - 6.3. Sodium azide may cause skin irritation
 - 6.4. Seek medical advice or attention if irritation persists
7. Eye Contamination
 - 7.1. Flush open eyes for 15 minutes with water
 - 7.2. If contacts are present, remove contacts after the first 15-minute flush, and flush for an additional 15 minutes
 - 7.3. May cause eye irritation
 - 7.4. Sodium azide may cause eye irritation
 - 7.5. Seek medical advice or attention if irritation persists
8. Ingestion

- 8.1. Do not induce vomiting
- 8.2. Drink plenty of water
- 8.3. Never give an unconscious person anything by mouth
- 8.4. Sodium azide may result in nausea, headache, and vomiting
- 8.5. Seek medical advice or attention immediately

Section 5: Fire-fighting Measures

1. Suitable Extinguishing Media
 - 1.1. Not applicable
2. Not Suitable Extinguishing Media
 - 2.1. No information available
3. Specific Hazards Arising from the Chemical
 - 3.1. Suspended material is not flammable
 - 3.2. Sodium azide is known to form explosive compounds when it is combined with metal halides and heavy metals (such as: lead, copper, gold and silver)
4. Special Protective Actions for Fire-fighters
 - 4.1. Wear self-contained breathing apparatus for firefighting if necessary
5. Further Information
 - 5.1. No information available

Section 6: Accidental Release Measures

1. Personal Precautions
 - 1.1. Use proper personal protective equipment
 - 1.2. Minimize contact with skin and eyes
 - 1.3. Prevent inhalation of dust, vapors, mists, or gases
 - 1.4. Ensure proper ventilation
2. Protective Equipment
 - 2.1. Standard proper personal protective equipment is required
3. Emergency Procedures
 - 3.1. Evacuate personnel to safe areas should a problem occur
4. Accidental Spills or Release of the Product
 - 4.1. Wear proper protective equipment while cleaning up spills
 - 4.2. Remove ignition sources and provide adequate ventilation
 - 4.3. Contact emergency personnel if required
5. Emergency Responders
 - 5.1. Personal Protective Equipment
 - 5.1.1. See Section 5
6. Environmental Precautions
 - 6.1. Prevent further leakage or spillage if safe to do so
 - 6.2. Do not let product enter drains
7. Methods and Materials for Containment and Cleaning
 - 7.1. Drains

- 7.1.1. Do not let product enter drains
- 7.2. Capping procedures
 - 7.2.1. No information available
- 7.3. Neutralization techniques
 - 7.3.1. No information available
- 7.4. Decontamination techniques
 - 7.4.1. No information available
- 7.5. Absorbent Materials
 - 7.5.1. Inert absorbent material – dispose of as hazardous waste
- 7.6. Cleaning Techniques
 - 7.6.1. No information available
 - 7.6.2. See section 13 for disposal information
- 7.7. Vacuuming Techniques
 - 7.7.1. No information available
- 7.8. Special Equipment
 - 7.8.1. Keep in suitable, closed containers for disposal

Section 7: Handling and Storage

- 1. Safe Handling
 - 1.1. Good room ventilation is suggested and adequate for most operations
- 2. Incompatible Substances
 - 2.1. No information available
- 3. Operations and Conditions to Avoid
 - 3.1. Generation of dust
- 4. General Good Hygiene Practices
 - 4.1. No eating, drinking or smoking in work areas
 - 4.2. Wash hands after breaks and at the end of the work day
 - 4.3. Remove contaminated clothing and protective equipment before entering eating areas
- 5. Conditions for Safe Storage
 - 5.1. Store at 2-8 °C
 - 5.2. Keep container closed and protected from light
 - 5.3. Conditions to avoid
 - 5.3.1. Do not freeze
 - 5.4. Environmental Effects to avoid
 - 5.4.1. Protect product from light
- 6. How to maintain product integrity
 - 6.1. Keep container closed
 - 6.2. Keep product refrigerated
- 7. Engineering Advice
 - 7.1. Good room ventilation is adequate for most operations

Section 8: Exposure Controls and Personal Protection

1. Occupational Exposure Limits
 - 1.1. American Conference of Government Industrial Hygienists (ACGIH)- No information available
 - 1.2. Threshold Limit Values (TLV)- No information available
 - 1.3. International Agency for Research on Cancer (IARC)- No information available
 - 1.4. National Toxicology Program (NTP)- No information available
2. Biological Limits
 - 2.1. No information available
3. Appropriate Engineering Controls
 - 3.1. Adequate room ventilation should be adequate for most operations
4. Proper Personal Protective Equipment
 - 4.1. Always use good occupational hygiene practices
 - 4.1.1. Do not eat, drink, or smoke while using this product
 - 4.1.2. Wash hands before breaks and at the end of the work day
 - 4.1.3. Regularly clean equipment, work area, and clothing
 - 4.1.4. Wear a lab coat, safety glasses with side shields, and gloves
 - 4.2. Eye and face protection
 - 4.2.1. Safety glasses with side shields
 - 4.3. Skin protection
 - 4.3.1. Chemical resistant gloves
 - 4.3.1.1. Must be impermeable and resistant to the product
 - 4.3.1.2. This product has not been evaluated for permeation
 - 4.3.1.3. Permeation data must be obtained from the glove manufacturer for suitable use with this product
 - 4.3.1.4. No information on glove material recommendations
 - 4.3.2. In the event of impaired glove protection please:
 - 4.3.2.1. Remove gloves immediately
 - 4.3.2.2. Wash hands with soap and water for 15 minutes
 - 4.3.2.3. Consult a physician if necessary
 - 4.4. Respiratory Protection
 - 4.4.1. Not normally necessary
 - 4.5. Thermal Hazards
 - 4.5.1. No information available
5. Special Equipment
 - 5.1. No information available

Section 9: Physical and Chemical Properties

Property	Data
Physical State	Liquid with solid particles
Color	Translucent or colored liquid suspension. May be whitish, or blue
Odor	Faint or non-detectable odor
Odor Threshold	No information available
Freezing Point	No information available
Melting Point	No information available
Boiling point or Initial Boiling Point/Range	100 °C (212 °F)
Flammability	No information available
Lower and Upper Explosion Limit/Flammability Limit	No information available
Flash Point	No information available
Auto-Ignition Temperature	No information available
Explosive properties	No information available
Decomposition Temperature	No information available
Oxidizing Properties	No information available
pH	No information available
Kinematic Viscosity	No information available
Solubility	Dispersible in water
Partition Coefficient n-octanol/water (Log value)	No information available
Vapor Pressure	No information available
Density and/or Relative Density	No information available
Relative Vapor Density	No information available
Particle Characteristics	Particle density: ~1.06 Fluorescent
Evaporation Rate	No information available
Surface Tension	No information available

Section 10: Stability and Reactivity

1. Reactivity
 - 1.1. No information available
2. Chemical Stability
 - 2.1. Stable under recommended storage conditions
3. Possibility of Hazardous Reactions
 - 3.1. No information available
4. Conditions to avoid
 - 4.1. Product may irreversibly aggregate if frozen
5. Incompatible Materials
 - 5.1. None known under normal use conditions

6. Hazardous Decomposition Products
 - 6.1. Sodium azide is known to form explosive compounds 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, but Sodium azide is known to be highly toxic.

1. Acute Toxicity
 - 1.1. Sodium azide: may result in eye and skin irritation
 - 1.1.1. Ingestion may result in nausea, headache, and vomiting
2. Skin Corrosion/Irritation
 - 2.1. Sodium azide: may result in skin irritation
3. Serious Eye Damage/Irritation
 - 3.1. Sodium azide: may result in eye irritation
4. Respiratory or Skin Sensitization
 - 4.1. No information available
5. Germ Cell Mutagenicity
 - 5.1. Sodium azide can alter genetic material
6. Carcinogenicity
 - 6.1. Sodium azide can cause cancer
7. Reproductive Toxicity
 - 7.1. No information available
8. Specific Target Organ Toxicity- Single Exposure
 - 8.1. Sodium azide: heart, nerves, brain
9. Specific Target Organ Toxicity – Repeated Exposure
 - 9.1. Sodium azide: heart, nerves, brain
10. Aspiration Hazard
 - 10.1. No information available
11. Other Information
 - 11.1. No information available

Section 12: Ecological Information

1. Ecotoxicity: Do not allow product to enter drains
 - 1.1. Fish
 - 1.1.1. No information available
 - 1.2. Crustaceans
 - 1.2.1. No information available
 - 1.3. Algae
 - 1.3.1. No information available
 - 1.4. Other Aquatic Plants
 - 1.4.1. No information available

- 1.5. Soil Micro- and Macro-Organisms
 - 1.5.1. No information available
- 1.6. Birds
 - 1.6.1. No information available
- 1.7. Bees
 - 1.7.1. No information available
- 1.8. Plants
 - 1.8.1. No information available
- 1.9. Inhibition of Micro-Organisms
 - 1.9.1. No information available
- 2. Persistence and Degradability
 - 2.1. No information available
- 3. Bioaccumulative Potential
 - 3.1. No information available
- 4. Mobility in Soil
 - 4.1. No information available
- 5. Other Adverse Effects
 - 5.1. Environmental Fate
 - 5.1.1. No information available
 - 5.2. Ozone Depletion Potential
 - 5.2.1. No information available
 - 5.3. Photochemical Ozone Creation Potential
 - 5.3.1. No information available
 - 5.4. Endocrine Disrupting Potential and/or Global Warming Potential
 - 5.4.1. No information available

Section 13: Disposal Considerations

- 1. Disposal Methods
 - 1.1. Sodium azide
 - 1.1.1. Disposal code: P105
 - 1.1.2. CAS No. 026628228
 - 1.1.3. Please dispose of in accordance to local and federal regulation
 - 1.2. Please take precautions to generate as little waste as possible while handling and using this product
 - 1.3. Do not dispose of contaminated materials in the sewage
 - 1.4. Packaging, containers, solutions and any material that may have come in contact with this product should be considered as hazardous as the product itself
 - 1.5. Disposal of this product and any of its by-products should be in compliance with all applicable local, regional and national/federal biological hazardous waste disposal regulations
- 2. Disposal Containers and methods
 - 2.1. See Section 6

