



NanoCollect[®] Microfluidic Sorting Cartridges

Section 1: Chemical Product and Company Identification

1.1 Product Identifiers

Catalog No.	Product Name
150510, 150511, 150512	NanoCollect Microfluidic Bulk Sorting Cartridge, 1, 3, or 10 Pack
150500, 150501, 150502	NanoCollect Microfluidic Single-Cell Sorting Cartridge, 1, 3, or 10 Pack

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

This material is only for the purpose of technical analysis and/or scientific research. The health, toxicological, & ecotoxicological 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. Caution: This substance has not been fully tested (EC).

OSHA Specific Hazards: GHS08 Health hazard.
Inhalation (powder/mists): GHS07 Acute Tox. 4 H332 Harmful if inhaled.
Skin and Eyes: Not applicable.
Ingestion: GHS07 Acute Tox. 4 H302 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.

Section 3: Composition / Information on Ingredients

Refers to content in aqueous solution:

Name	CAS Number	Percent (w/w) Approx.
Ethylene-norbornene copolymer	26007-43-2	-----
2-Methoxyethyl Cyanoacrylate	27816-23-5	80 - 95 Trade Secret *
Non-Hazardous Resin (NJTS Reg. No. 04499600-7084)	Trade Secret *	5 - 20 Trade Secret *
Lead Oxide	1306-60-0	55 - 72
Zirconium Oxide	1314-23-4	4 - 25
Titanium Oxide	13463-67-7	4 - 15
FEP Copolymer (Fluorinated Ethylene Propylene Copolymer)	25067-11-2	>99

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Section 4: First Aid Measures

4.1

- Inhalation:** Not anticipated under recommended usage conditions. Aerate with fresh air. When symptoms persist or in all cases of doubt, seek medical advice.
- Skin Contact:** Not anticipated under recommended usage conditions. Cool skin rapidly with cold water after contact with molten polymer. If polymer is stuck to skin, do not remove. Allow adhered polymer to come off naturally. Removal of adhered polymer may result in more tissue damage than if polymer is allowed to come off over time. When symptoms persist or in all cases of doubt, seek medical advice.
- Eye Contact:** Not anticipated under recommended usage conditions. Irrigate with plenty of clean water for 15 minutes; remove contact lenses for better cleaning. If symptoms persist or injury is suspected, seek medical advice.
- If Swallowed:** Not anticipated under recommended usage conditions. Do not induce vomiting without medical advice. Obtain medical attention.
- Environmental:** May be harmful to the environment.

4.2 Most important symptoms and effects, both acute and delayed

Acute lead poisoning can lead to a condition called acute encephalopathy, which may rapidly develop into seizures, coma and eventually death.

4.3 Notes to physician

This product is essentially inert and non-toxic. Under conditions of thermal decomposition irritant gases may be formed. Exposed patients may need to have their arterial blood gases and carboxyhemoglobin levels checked. Expect influenza-like symptoms if thermal decomposition products are inhaled: chills, fever, headache, shortness of breath, coughing. This is known as "polymer fume-fever" and will pass after 24 to 48 hours providing no further exposure occurs.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.



- 5.2 Special hazards arising from the substance or mixture**
None inherent in this product.

Hazardous Decomposition or By-Products
None inherent in this product.

SUBSTANCE	CONDITION
Carbon Monoxide	During Combustion
Carbon Dioxide	During Combustion
Lead Oxide Fume	During Combustion
Lead Oxide	During Combustion
Zirconium Oxide	During Combustion
Titanium Oxide	During Combustion

- 5.3 Advice for fire-fighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use protective equipment as detailed in section 8. Avoid contact with skin and eyes. Do not breathe dust. Keep people away from and upwind of spill/leak. For emergency responders: Personal protection see section 8.
- 6.2 Environmental precautions**
Not readily biodegradable. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods and material for containment and cleaning up**
Methods for containment: Stop the flow of material, if possible, without risk.
Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Like most thermoplastic plastics the product can be recycled. Dispose of in accordance with local regulations.
- 6.4 Reference to other sections**
Indications about waste treatment see section 13.

Section 7: Handling and Storage

Read the Suppliers' technical data Sheet carefully before commissioning or using the product. Store unopened package at ambient temperature protected from light away from heat.

Section 8: Exposure Controls and Personal Protection

- 8.1 Components with workplace control parameters**
No components above the 0.1% threshold have specific workplace control parameters assigned to our knowledge.
- 8.2 Engineering measures**
Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
- 8.3 Personal protective equipment**



Eye/face Protection:	Safety glasses.
Eye/face Protection:	No chemical protective gloves are required.
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).
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Solid
Color:	Clear cartridge, yellow white PZT, transparent tubing
Odor:	Odorless
Odor Threshold:	Not applicable
pH:	Not applicable
Relative Density:	Not applicable
Bulk Density:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Viscosity:	Not applicable
Boiling Point:	Not applicable
Melting Point:	260° C (Tubing)
Decomposition Temperature °C:	Can begin at 230° C (Tubing)
Auto Ignition Temperature °C:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Specific Gravity:	No data available
Solubility:	Insoluble
Lower Explosion Limit:	No data available
Upper Explosion Limit:	No data available
Volatile Organic Compounds:	Not applicable
Percent Volatile:	Not applicable

9.2 Other information

Physical Hazards:	Not applicable, not a hazardous mixture
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Section 10: Stability and Reactivity

Reactivity:	The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in literature.
Chemical Stability:	Stable under normal conditions of handling, use and transportation.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Extreme cold or hot temperatures and high humidity.
Incompatible Materials:	Strong oxidizing agents, bases, alcohols, oil, bleach.
Hazardous Decomposition Products:	Hazardous polymerization will not occur. Thermal decomposition can lead to



release of irritating gases and vapours.

Section 11: Toxicological Information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

Signs and Symptoms of Exposure

None known.

Note: No toxicology information is available. Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information

To the best of our knowledge, the ecotoxicological properties of this product have not been fully investigated. However, improper disposal may be harmful to the environment depending on the biological materials used.

Toxicity:	No additional information available.
Persistence and Degradability:	No information available.
Bio-Accumulative Potential:	No information available.
Mobility in Soil:	No information available.
Other information:	No other effects known.

Note: No information on ecology is available. According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

Section 13: Disposal Considerations

13.1 Product Information

Where possible recycling is preferred to disposal or incineration. May be taken to waste disposal site or incineration plant, with household waste. Methods of disposal must meet all local, federal and state laws.

13.2 Uncleaned empty packaging

Regulations concerning reuse or disposal of used packaging materials must be observed.

Section 14: Transport Information

UN No.:	No information available.
UN Proper Shipping Name:	No information available.
Transport Hazard Class:	Not classified as hazardous for any mode of transport.
IATA, IMO/IMDG, ADR/RID, US-DOT:	Not classified as hazardous for any mode of transport.
Hazard Label(s):	None.
Packing Group:	No information available.
Environmental Hazards:	No information available.
Special Precautions for User:	No information available.



Section 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulations: No information available
National Regulations: Observe any national regulations!
- 15.2 Chemical Safety Assessment**
For this product a chemical safety assessment was not carried out.

Section 16: Other Information

- 16.1 Text of hazard category Codes, hazard statements, and R-phase(s) mentioned in Section 3:**
N. Dangerous to the environment
- 16.2 Further Information:**
This SDS was prepared in accordance with ANSI Z400.1-1993, 91/155/EEC & EC 1907/2006 recommended formats. The information contained herein is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. NanoCellect Biomedical, Inc., does not guarantee said information is accurate or complete, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions. Spherotech, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product, nor for the results obtained, or for incidental or consequential damage arising from the use of these data. No freedom infringement of any patent, copyright or trademark is to be inferred.
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END OF SDS

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