

Material Safety Data Sheet

Version No.: 0 (Rev. date: 2022-12-23)

***AccuNanoBead*TM Streptavidin Magnetic Nanobeads, Size 200nm**

1. Product and company identification

- A. Product Name: *AccuNanoBead*TM Streptavidin Magnetic Nanobeads, Size 200nm
- B. Recommended Use: Research Use Only
- C. Supply Information
- Company: Bioneer
 - Address: 8-11, Munpyeongseo-ro, Daedeok-gu, Daejeon 306-220, Republic of Korea
 - Emergency telephone number: +82-42-930-8777
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2. Hazards identification

- A. Classification of the substance or mixture
- No data available
- B. Label elements
- Hazard pictograms

Not applicable

 - Signal word

Not applicable

 - Hazard statements

Not applicable

 - Precautionary statements

Not applicable
- C. Hazards – Other hazards which do not result in classification – Hazard Risk
- Not applicable
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3. Composition/information on ingredients

This mixture does not contain any substances to be mentioned according to the applicable regulations

4. First aid measures

A. First-aid measures after eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. First-aid measures after skin contact

Rinse skin with water/shower.

Take off immediately all contaminated clothing.

B. First-aid measures after inhalation

Call a poison center or a doctor if you feel unwell.

C. First-aid measures after ingestion

Call a poison center or a doctor if you feel unwell.

D. Other medical advice or treatment

Treat symptomatically.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide.

Unsuitable extinguishing media: No data available

B. Special hazards arising from the substance or mixture

Not data available

C. Special protective equipment and precautions for fire-fighters

Protection during firefighting:

Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus.

Complete protective clothing.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Ventilate spillage area.

Do not attempt to take action without suitable protective equipment.

For further information refer to section 8: "Exposure controls/personal protection".

Dispose of materials or solid residues at an authorized site.

B. Environmental precautions and protective procedures

No data available

C. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material.

7. Handling and storage

A. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station.

Wear personal protective equipment

Hygiene measures

Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

B. Conditions for safe storage

Storage conditions

Store in a well-ventilated place.

Keep cool.

8. Exposure controls / personal protection

A. Occupational Exposure Limits

Korea - Occupational Exposure Limits	
Local name	Sodium azide
Not applicable	
China - Occupational Exposure Limits	
Local name	Sodium azide
OEL MAC (Highly Toxic Goods)	0.3 mg/m ³
Singapore - Occupational Exposure Limits	
Local name	Sodium azide
OEL STEL	0.29 mg/m ³
OEL STEL [ppm]	0.11 ppm
Taiwan - Occupational Exposure Limits	
Local name	Sodium azide

OEL C	0.29 mg/m ³
OEL C [ppm]	0.11 ppm
Australia - Occupational Exposure Limits	
Local name	Sodium azide
OES C	0.3 mg/m ³
OES C [ppm]	0.11 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium azide
Not applicable	

B. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment

C. Personal protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Eye protection: Safety glasses

Hand protection: Protective gloves

Skin and body protection: Wear suitable protective clothing



9. Physical and chemical properties

A. Appearance: Liquid

B. Odor: No data available

C. Odor threshold: No data available

D. pH: 6~8

E. Melting / freezing point: Not applicable / No data available

F. Initial boiling point and boiling range: No data available

G. Flash point: 29°C

H. Evaporation rate: No data available

I. Flammability (solid, gas): Not applicable

J. Upper / lower flammability or explosive limits: No data available

K. Vapor pressure: No data available

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- L. Solubility: No data available
 - M. Vapor density: No data available
 - N. Relative density: No data available
 - O. Partition coefficient n-octanol/water: No data available
 - P. Auto-ignition temperature: No data available
 - Q. Decomposition temperature: No data available
 - R. Viscosity: No data available
 - S. Molecular mass: No data available
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10. Stability and Reactivity

- A. Chemical stability and Possibility of hazardous reactions
The product is non-reactive under normal conditions of use, storage and transport
Stable under normal conditions.
No dangerous reactions known under normal conditions of use.
 - B. Conditions to avoid
None under recommended storage and handling conditions (see section 7)
 - C. Incompatible materials
No data available
 - D. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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11. Toxicological information

- A. Information on exposure routes
Oral: Not classified
Skin and eyes contact: Not classified
Inhalation: Not classified
 - B. Health hazards
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Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory sensitization: Not classified

Skin sensitization: Not classified

Carcinogenicity: Not classified

Mutagenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological information

A. Exotoxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

B. Persistence and degradability

No data available

C. Bioaccumulative potential

No data available

D. Mobility in soil

No data available

E. Other adverse effects

Ozone: Not classified

Other adverse effects: No data available

13. Disposal considerations

A. Disposal method

Dispose of contents/container in accordance with licensed collector's sorting instructions.

B. Disposal precaution

No data available

14. Transport information

UN RTDG	ADR	IMDG	IATA
A. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
B. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
C. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
D. Packaging group			
Not applicable	Not applicable	Not applicable	Not applicable
E. Marine pollutant			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

F. Special precautions for user: No data available

15. Regulatory information

A. Occupational Safety and Health Act

Hazardous Substances Prohibited for Manufacturing: Not applicable

Hazardous Substances Requiring Permission: Not applicable

Threshold Limit Values Chemicals: Applicable

Hazardous Substances Below Permissible Level: Not applicable

Hazardous Substances Subject to Working Environment Measurement: Not applicable

Hazardous Substances Subject to Workers Requiring Health Examination: Not applicable

Hazardous Substances Subject to Control: Not applicable

Substance Subject to PSM Submission: Not applicable

B. Chemicals Control Act

Toxic Chemicals: Not applicable

Prohibited Chemicals: Not applicable

Restricted Chemicals: Not applicable

Substance requiring preparation for accidents: Not applicable

C. ACT ON REGISTRATION, EVALUATION, ETC. OF CHEMICALS (K-REACH)

Korea Existing Chemicals Inventory (KECI): Applicable

Priority Existing Chemical ('PEC') – subject to registration : Applicable

Priority Control Substances (Korea): Not applicable

CMR Substances (Korea): Not applicable

D. Safety Control of Dangerous Substances Act

Safety Control of Dangerous Substances Act: Applicable

E. Wastes Control Act

Hazardous Substances in Designated wastes: Not applicable

Types of wastes: No data available

F. Other Domestic and International Regulatory Information

Domestic

Persistent Organic Pollutants(POPs) Control Act: Not applicable

Ozone Depleting Substances(ODS): Not applicable

International (EU Regulatory Information)

EU Candidate list (SVHC): Contains no substance on the REACH candidate list

EU authorization list (REACH Annex XIV): Not applicable

EU restriction list (REACH Annex XVII): Not applicable

US Regulatory Information

CERCLA Section 103 (40CFR302.4): Contains listed substances

EPCRA Section 302 (40CFR355.30): Contains listed substances

EPCRA Section 304 (40CFR355.40): Contains listed substances

EPCRA Section 313 (40CFR372.65): Contains listed substances

International agreements

No data available

16. Other information

Bioneer Corporation makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local laws or regulations.
