

Material Safety Data Sheet

Version No.: 2.0(Rev. date : 2023-12-04)

***AccuNanoBead*TM Protein A Magnetic NanoBeads**

1. Product and Company Information

A. Product Name : *AccuNanoBead*TM Protein A Magnetic NanoBeads

B. Recommended Use : For Research Use Only

C. Supply Information :

Company : Bioneer Corporation

Address : 71, Techno 2-ro, Yuseong-gu, Daejeon, 34013, Republic of Korea

Emergency telephone number : +82-42-930-8777

2. Hazards Identification

A. Risk-Hazard Classification : Specific target organ toxicity (repeat exposure) : Class 2

B. Caution Items Including Preventative measures

Pictogram



Signal word : Warning

Hazard statement(s) : H373 May cause damage to (specific target organs) under chronic or repeated exposure

Precautionary statements :

Prevention : P260 Do not breathe dust/fume/gas/mist/vapours/spray

Response : P314 Get medical advice/attention if you feel unwell.

Storage : No Information

Disposal : P501 Dispose of contents/container to an approved waste disposal plant.

C. Other Risks-Hazards Not Included in Risk-Hazard Classification (NFPA) : No information.

3. Composition/Information on Ingredient

Chemical name	Synonyms	CAS No.	Weight(%)
FERRIC-FERROUS OXIDE	BLACK IRON OXIDE	1317-61-9	90~100
Silicon Dioxide	SILICA	7631-86-9	0~10
Protein A	Protein A	N/A	0~1

4. First Aid Measure

- A. Upon Eye contact : Rinse thoroughly with plenty of water for at least 20 minutes.
 - B. Upon Skin Contact : Rinse thoroughly with plenty of water for at least 20 minutes.
 - C. Upon Inhalation: Seek medical attention if exposure or contact is suspected.
 - D. Upon Ingestion : Seek medical attention if exposure or contact is suspected.
 - E. The most important acute and delayed symptoms/effects : No information.
 - F. Notes to Physician : No Information.
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5. Fire-fighting Measures

- A. Proper(Improper) Extinguishing Material : Nonflammable product.
 - B. Specific Hazards from Chemicals : No Information.
 - C. Firefighting Protection and Precautions : Rescuers must wear appropriate protection.
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6. Accidental Release Measures

- A. Personal precautions : Immediately wipe spills and follow prevention measures.
 - B. Environmental precautions : Prevent introduction into waterways, sewers, basements and sealed spaces.
 - C. Methods and materials for containment and cleaning up : Absorb liquids and clean contaminated area with ethanol.
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7. Handling and Storage

- A. Handling Precautions : Keep container tightly closed, Be aware of conditions and chemicals to avoid.
 - B. Storage Precautions : Keep refrigerated.
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8. Exposure Controls / Personal Protection

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- A. Chemical Exposure Standards, Biological Exposure Standards Etc. : No information.
- B. Proper Physical Management : No Information.
- C. Personal Protection
- Respiratory Protection : wear respiratory mask approved by KOSHA(Korea Occupation Safety Health Agency)
 - Eye Protection : wear Chemical Safety protective goggle or glasses approved by KOSHA(Korea Occupation Safety Health Agency)
 - Hand Protection : wear Chemical Safety gloves approved by KOSHA(Korea Occupation Safety Health Agency)
 - Body Protection : wear protective clothes approved by KOSHA(Korea Occupation Safety Health Agency)
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9. Physical and Chemical Properties

- A. Appearance : Black powder
- B. Odor : None
- C. Odor threshold : No Information
- D. pH : No Information
- E. Melting point/Freezing point : No Information
- F. Initial boiling point/range : No Information
- G. Flash point : No Information
- H. Evaporation rate : No Information
- I. Flammability(Solid, Liquid) : Nonflammable
- J. Flammability Limits upper/lower : No Information
- K. Vapor pressure : No Information
- L. Solubility : No Information
- M. Vapor density : No Information
- N. Viscosity : No Information
- O. n octanol/water partition coefficient : No Information
- P. Autoignition temperature : No Information
- Q. Decomposition temperature : No Information
- R. Specific gravity : No Information
- S. Molecular weight : No Information
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10. Stability and Reactivity

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- A. Stability : Stable under recommended storage conditions.
 - B. Possibility of harmful response : No Information.
 - C. Conditions to avoid (electric discharge, impact, vibration etc) : Ignition source of Heat, spark, flame
 - D. Material to avoid : Strong acids.
 - E. Hazardous Decomposition Products : No Information.
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11. Toxicological Information

- A. Probable Exposure Path
 - Respiratory : can be harmful if inhaled.
 - Ingestion : can be harmful if swallowed.
 - Eye/Skin : Harmful in contact with skin. Can be caused skin irritation.
 - B. Health Hazard Information
 - Acute Toxicity : No Information.
 - Skin corrosive or irritant : can be caused skin irritation.
 - Serious eye damage or irritant : can be caused eye irritation.
 - Respiratory Hypersensitivity : No Information.
 - Skin Hypersensitivity : No Information.
 - Carcinogenic Properties : No Information.
 - Reproductive Cell Mutation Properties : No Information.
 - Reproductive Toxicity : No Information
 - Target Organ Toxicity (Single Exposure) : No Information
 - Target Organ Toxicity (Repeat Exposure) : No Information
 - Inhalation Toxicity : No Information
 - C. Numerical measures of toxicity(Acute toxicity estimates etc) : No Information
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12. Ecological Information

- A. Biological Toxicity : No Information
 - B. Persistency and Degradability : No Information
 - C. Bioconcentration : No Information
 - D. Soil Mobility : No Information
 - E. Other Toxic Effects : No Information
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13. Disposal Considerations

- A. Waste disposal method : Dispose of material in accordance with formally disposal company.
 - B. Disposal Considerations : Dispose contents and vessel in accordance with regulation by the waste disposal law.
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14. Transport Information

- A. Not regulated in the meaning of transport regulations.
 - IMDG: Non-hazardous for sea freight.
 - ADR: Non-hazardous for road transport.
 - RID: Non-hazardous for rail transport.
 - ICAO/IATA: Non-hazardous for air transport.
 - B. UN Number: Not applicable
 - C. UN Proper Shipping Name: Not applicable
 - D. Transport hazard class: Not applicable
 - E. Packing group: Not applicable
 - F. Marine pollutant: Not applicable
 - G. The special vehicle Safety measures: Not applicable
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15. Regulatory Information

This safety datasheet compiles with the requirements of Regulation (EC) No. 1272/2008

- A. Regulation by Industrial safety and health act: Not applicable
 - B. Regulation by chemicals control act: Not applicable
 - C. Regulation by Safety control of dangerous substance act: Not applicable
 - D. Regulation by the waste control act: Not applicable
 - E. Regulation by other domestic and foreign regulatory: Not information available
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16. Other References

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