

**Material Safety Data Sheet**  
**Version No.: 2.0(Rev. date : 2023-12-04)**

***AccuNanoBead*<sup>TM</sup> Protein G Magnetic NanoBeads**

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1. Product and Company Information

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- A. Product Name : *AccuNanoBead*<sup>TM</sup> Protein G 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
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2. Hazards Identification

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- A. Risk-Hazard Classification : Specific target organ toxicity (repeat exposure) : Class 2
  - B. Caution Items Including Preventative measures
    - Pictogram
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- 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.
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3. Composition/Information on Ingredient

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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 G	Protein G	N/A	0~1

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#### 4. First Aid Measure

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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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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