

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Product Name: FerroSelect™ Quadrupoles

Product Details: Applicable to all FerroSelect™ QP5 & FerroSelect™ QP15

Applicable Product SKUs: 24-0001, 24-0002

Recommended Use: For RESEARCH USE ONLY Immunomagnetic Cell Selections. Not for use in Diagnostic Procedures. For *ex vivo* use only.

Restrictions on Use: Not intended for human or animal therapeutic or diagnostic uses.

Manufacturer/Supplier:

BioMagnetic Solutions LLC

310 Innovation Blvd Suite 500

State College, PA 16803 USA

Emergency Contact Information: 1-833-424-6624

Website: www.biomagneticsolutions.com

2. HAZARDS IDENTIFICATION

GSH Classification: Not known acute health hazards

GSH Label Elements: Not known acute health hazards

Other Hazards: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name: Neodymium 52 Magnets

Substance/Mixture: N/A

Chemical Nature: Solid

Concentration: N/A

Derived From: Neodymium 52 Magnets

Hazardous Ingredients: None known. The exact composition has been withheld as a trade secret

Animal Origin Statement: The product is manufactured in China entirely from material of non-animal origin. The manufacture, packaging, storage, and transportation of these materials do not involve the use of material of animal origin. This information is to be used for the purpose of determining animal origin only and not to be confused with 'country of origin' for import/export purposes.

4. FIRST AID MEASURES

After Inhalation: Supply fresh air if dust is inhaled.

After Eye Contact: Flush opened eyes thoroughly with water for at least 15 minutes. Remove gloves, wash hands and remove contact lenses. Separate the eyelids with fingers to assist in flushing. Consult a physician if irritation persists.

After Skin Contact: Prolonged skin contact may cause irritation or allergic dermatitis, especially for individuals with nickel allergy. In the case of contact with chips or dust from a broken magnet, brush off powders and wash well with soap and water. If the skin is broken or there is sign of irritation, consult a physician.

After Ingestion: If a magnet is swallowed, seek medical attention immediately.

Most Important Symptoms and Effects, both Acute and Delayed: No Information Available

Recommendations for Immediate Medical Care and Special Treatment: No Information Available. Conditions should be treated symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Agents: No information available.

Unsuitable Extinguishing Media: No information available.

Special Hazards arising from the Substance: No information available.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective clothing for firefighting, if necessary.

6. ACCIDENTAL SPILL/RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: No special measures required.

Environmental Precautions: None.

Methods and Materials for Containment and Cleaning Up: No special measures required.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Large magnets can attract to one another. Strong attractive forces can cause injury. Impacts of magnets can eject chips or bits of magnet material at speed – eye protection should be used. Strong magnetic fields may affect the operation of implanted medical devices such as pacemakers and ICDs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substance with occupational exposure limits.

Appropriate Engineering Controls: No engineering controls necessary.

Personal Protective Measures:

Eye/Face Protection – Either goggles or glasses with solid side shields should be worn whenever handling magnetized magnets.

Skin/Body Protection – Handle with disposable gloves. Replace as soon as possible whenever contamination occurs.

Respiratory Protection – No special protective equipment is needed under normal use conditions with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance: Solid

Odor: Odorless

Odor Threshold: No information available

Melting Point/Freezing Point: No data available

Boiling Point/Boiling Range: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammability: No data available

Upper/Lower Flammability or Explosive Limits: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Relative Density: No data available

Water Solubility: Not water soluble

Partition Coefficient: n-octanol/water: No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Explosive Properties: No information available

Oxidizing Properties: No information available

10. STABILITY AND REACTIVITY

Reactivity: Hydrogen may be released in contact with acid, which can cause explosive gas mixtures. Reacts with strong acids to form hydrogen gas. Do not store near strong oxidizers.

Reactive Hazard: None known

Chemical Stability: No data available.

Possibility of Hazardous Reactions: See reactivity

Conditions to Avoid: See product documentation for storage conditions

Incompatible Materials: None known

Hazardous Decomposition Products: None known

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure and Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Inhalation: No data available

Eye Contact: No data available

Skin Contact: No data available

Ingestion: No data available

Numerical Measures of Toxicity:

Acute Toxicity: No data available.

Delayed and Immediate Effects as well as Chronic Effects from Short- and Long-Term Exposure:

Skin Corrosion/Irritation: No data available

Serious Eye Damage/Eye Irritation: No data available

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (STOT), Single Exposure: No data available

Specific Target Organ Toxicity (STOT), Repeated Exposure: No data available

Aspiration Hazard: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with local, regional, or national regulations.

Contaminated Packaging: Do not reuse empty containers.

14. TRANSPORT INFORMATION

Non-hazardous for road air or shipping freight. Instructions for shipping by the company should be followed.

ADR/AND/IMDG/IATA/DOT: Not applicable

ICAO (air): Not applicable

15. OTHER INFORMATION

Disclaimer: The information contained herein is correct to the best of our knowledge, at the date of publication. The information shall be used only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. The information shall not be considered a warranty or quality specification. The information relates only to the specified material and may not be valid if used in combination with any other materials or processes. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained herein or for any damage resulting from handling or contact with the product.