Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION
   Product name : Plain beads
   Product number : TAS8848 N1010
   Product uses : For in vitro research use
   Physical state : Suspension
   Company : Tamagawa Seiki Co., Ltd.
   Telephone : +81 265-21-0501
   Fax : +81 265-21-1896

2. COMPOSITION/INFORMATION ON INGREDIENTS
   Name : Magnetic nanoparticles
   Composition : The magnetic nanoparticles consist of ferrite nanoparticles coated with polymer layer.
   CAS-No. :
   The product contains no substances which at their given concentration, are considered to be hazardous to health.

3. HAZARDS IDENTIFICATION
   Classification :
   Indication of danger : Not hazardous

4. FIRST AID MEASURES
   General advice
   Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
   If inhaled
   Move person into fresh air.
   In case of skin contact
   Wash off with soap and plenty of water.
   In case of eye contact
   Rinse thoroughly with plenty of water.
   If swallowed
   Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES
   Suitable extinguishing media
   Use water spray, dry chemical or carbon dioxide.
   Special protective equipment for fire-fighters
   Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES
   Personal precautions
   Use personal protective equipment.
   Methods for cleaning up
7. HANDLING AND STORAGE
   Handling
   No special handling advice required.
   Storage
   Keep in properly labeled containers. Keep in a cold and dark place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   Contains no substances with occupational exposure limit values.
   Personal protective equipment
   Respiratory protection
   In case of insufficient ventilation wear suitable respiratory equipment.
   Hand protection
   Handle with gloves.
   Eye protection
   Safety glasses.
   Skin and body protection
   Personal protective clothing.
   Hygiene measures
   Avoid contact with skin, eyes and clothing. Wash hands after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES
   Appearance
   Form   Liquid (Suspension)
   Colour  Brown
   Safety data
   pH      no data available
   Melting point  no data available
   Boiling point  no data available
   Flash point  no data available
   Ignition temperature  no data available
   Lower explosion limit  no data available
   Upper explosion limit  no data available
   Water solubility  insoluble

10. STABILITY AND REACTIVITY
    Storage stability
    Stable under recommended storage conditions.
    Conditions to avoid
    Avoid light.
    Hazardous decomposition products
    No information available

11. TOXICOLOGICAL INFORMATION
    Acute toxicity
    No information available
    Potential Health Effects
    No information available
12. ECOLOGICAL INFORMATION
   Elimination information (persistence and degradability)
   no data available
   Ecotoxicity effects
   no data available
   Further information on ecology
   no data available

13. DISPOSAL CONSIDERATIONS
   Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION
   International transport regulations
   Not classified

15. REGULATORY INFORMATION
   In accordance with local and national regulations

16. OTHER INFORMATION
   Further information
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   internal use only.
   The above information is believed to be correct but does not purport to be all inclusive and
   shall be used only as a guide. The information in this document is based on the present state of
   our knowledge and is applicable to the product with regard to appropriate safety precautions. It
   does not represent any guarantee of the properties of the product. Tamagawa Seiki Co., shall
   not be held liable for any damage resulting from handling or from contact with the above
   product.