

SAFETY DATA SHEET

1. Identification of the Substance/Mixture and of the Company/Undertaking

Identification of the substance/preparation

Product code MG17PG-1ml
Product name Protein G-Magnetic Nanoparticles

Company/Undertaking Identification

MagGenome Technologies Pvt. Ltd.
Plot No 153, 1st Floor, 1st Main Road,
Industrial Estate, Perungudi, Chennai-600 096
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For research use only. Not intended for human or animal diagnostic or therapeutic uses

2. Hazards Identification

GHS - Classification

Signal Word

Not hazardous

Health Hazard

Not hazardous

Physical Hazards

Not hazardous

Principle Routes of Exposure/Potential Health effects

Eyes	May cause eye irritation in susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Specific Effects

Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None
Target Organ Effects	No known effects under normal use conditions

HMIS

Health	0
Flammability	0
Reactivity	0
Personal Protection	C

C: Safety Glasses, Gloves, Synthetic Apron

3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First aid measures

Skin contact	Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15minutes. If symptoms persist, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.
See Section 12 for additional information

7. Handling and storage

Handling	Always wear recommended Personal Protective Equipment. No special handling advice required.
Storage	Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limits

Contains no substances with occupational exposure limit values. Avoid repeated exposure.

Engineering measures

Ensure adequate ventilation, especially in confined areas. Equipped with eye wash facility and safety shower.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institutions risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Not normally required if used as directed.
Eye protection	Safety glasses with side-shields.
Skin and body protection	Wear protective clothing including impervious boots, gloves, lab coat.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

Prevent product from entering drains

9. Physical and chemical properties

General Information

Physical State	Suspension
Color	Brown to Black
Odor	No information available
Boiling Point/Range	No information available
Melting point/range	No information available
Flash point	250° C
Auto- ignition temperature	No information available
Oxidizing properties	No information available
Water solubility	Soluble
Danger of explosion	Does not possess any explosion hazard

10. Stability and reactivity

Stability	Stable under normal temperature and pressure.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition	
Products	None under normal use
Hazardous Polymerization	Polymerization does not occur.

11. Toxicological information

Acute Toxicity Values

Oral LD ₅₀	No information available
Inhalation LC ₅₀	No information available
Dermal LD ₅₀	No information available

Principle Routes of Exposure/Potential Health effects

Eyes	May cause eye irritation.
Skin	May cause skin irritation.
Inhalation	May be harmful if inhaled.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None
Mutagenic effects	None
Reproductive toxicity	None
Sensitization	None
Target Organ Effects	No known effects under normal use conditions
Embryotoxicity	None

If used according to specifications, the product is non-hazardous according to our experience.

12. Ecological information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

13. Disposal consideration

Dispose in accordance with local regulations and laws.

14. Transport information

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	None
Subsidiary Class	None
Packing Group	None
Un-Number	None

15. Regulatory information

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

U.S. State Regulations

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. Other information

MSDS prepared by: MagGenome Technologies Pvt. Ltd.

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Disclaimer: The above information is based on our experience, knowledge and diligent search. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. MagGenome Technologies Pvt. Ltd.

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