

Section 1. Identification
<p>Product: Qbeads-Silica</p> <p>Catalog-No.: MF-SIL-5010, MF-SIL-5024</p> <p>Manufacturer: MagQu Co., Ltd.</p> <p>Address: 3F, No.12, Lane 538, Zhongzheng Rd., Xindian Dist., New Taipei City 231, Taiwan</p> <p>Tel: 886-2-8667-1897</p> <p>Fax: 886-2-8667-1809</p> <p>E-mail: info@magqu.com</p> <p>Website: www.magqu.com</p>
Section 2. Hazards Identification
<p>Classification of the substance or mixture</p> <p>Classification according to Regulation (EC) No 1272/2008</p> <p>The product is not classified according to the CLP regulation.</p> <p>Label elements</p> <p>Labelling according to Regulation (EC) No 1272/2008: Void</p> <p>Hazard pictograms: Void</p> <p>Signal word: Void</p> <p>Hazard statements: Void</p> <p>Classification system:</p> <p>NFPA ratings (scale 0 - 4)</p> <p>Health = 0</p> <p>Fire = 0</p> <p>Reactivity = 0</p> <p>HMIS-ratings (scale 0 - 4)</p> <p>Health = 0</p> <p>Fire = 0</p> <p>Reactivity = 0</p> <p>OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable.</p> <p>Target Organ(s): Not applicable or unknown.</p> <p>Other hazards: This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.</p>
Section 3. Composition/Information on Ingredients
<p>Chemical characterization: Mixtures</p> <p>Description: The magnetic beads consist of single-crystal Fe₃O₄ magnetic sphere core and being coated with a silicon dioxide (SiO₂) layer. Qbeads-silica are supplied in purified water.</p> <p>Dangerous components: Void</p>
Section 4. First Aid Measures
<p>General information: No special measures required.</p> <p>Inhalation: Remove from exposure to fresh air immediately; consult doctor in case of complaints.</p> <p>Skin: Wash off with soap and plenty of water.</p> <p>Eyes: Flush with large amounts of water for at least 15 minutes. Wash contaminated clothes before reuse. Consult a physician if irritation persists.</p> <p>Swallowing: Flush mouth with water. Get medical attention.</p>

<p>Most important symptoms and effects, both acute and delayed: None</p> <p>Indication of any immediate medical attention and special treatment needed</p> <p>No further relevant information available.</p>
Section 5. Fire Fighting Measures
<p>Extinguishing Media:</p> <p>Suitable extinguishing agents: Foam, CO₂, Water, Dry Chemical</p> <p>Special hazards arising from the substance or mixture: None known.</p> <p>Advice for firefighters: No special advice.</p> <p>Protective equipment: No special measures required.</p>
Section 6. Accidental Release Measures
<p>Personal precautions, protective equipment and emergency procedures: Not required.</p> <p>Environmental precautions: Dilute with plenty of water.</p> <p>Methods and material for containment and cleaning up:</p> <p>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</p> <p>Reference to other sections</p> <p>No dangerous substances are released. For disposal see section 13.</p>
Section 7. Exposure Control/Personal Protective Measures
<p>Precautions for safe handling: No special measures required.</p> <p>Information about protection against explosions and fires: The product is not flammable.</p> <p>Conditions for safe storage, including any incompatibilities</p> <p>Requirements to be met by storerooms and receptacles: No special requirements.</p> <p>Information about storage in one common storage facility: Not required.</p> <p>Further information about storage conditions: None.</p> <p>Specific end uses: No further relevant information available.</p>
Section 8. Handling and Storage
<p>Control parameters</p> <p>Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.</p> <p>Exposure controls</p> <p>Personal protective equipment:</p> <p>General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.</p> <p>Eye/face protection: Goggles recommended during refilling.</p> <p>Breathing equipment: Not required.</p> <p>Protection of hands:</p> <p>Protective gloves: Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</p> <p>Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the</p>

resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance:

Form: Fluid
Color: Colorless

Odor: Characteristic

Odour threshold: Not determined.

pH-value at 20°C (68 °F): 7.0-8.5

Melting point/freezing point: 0 °C (32 °F)

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: Not applicable.

Evaporation rate: Not determined.

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits: Not determined.

Density at 20 °C (68 °F): 0.998 g/cm³ (8.328 lbs/gal)

Vapour pressure: Not determined.

Relative density: Not determined.

Vapour density: Not determined.

Relative density: Not determined.

Water solubility: Partly miscible.

Partition coefficient (n-octanol/Water): Not determined.

Autoignition temperature: Product is not selfigniting.

Viscosity:

Dynamic at 20°C (68 °F): 1.0020 cP.

Kinematic at 20°C (68 °F): 1 cSt.

Solvent content:

Organic solvents: 0 %

Water: 95 %

Solids content: 5 %

Explosive properties: Product does not present an explosion hazard.

Oxidizing properties: Not determined.

Other safety information

No further relevant information available.

Section 10. Stability and Reactivity

Reactivity

Chemical stability: Stable

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

Section 11. Toxicological Information

Information on toxicological effects
Acute toxicity:

LD/LC50 values that are relevant for classification: No data available.

Skin: No irritant effect.

Eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Section 12. Ecological information

Toxicity: Not harmful to the aquatic environment.

Persistence and degradability: Not available.

Bioaccumulative potential: Not known.

Mobility in soil: No further relevant information available.

Remark: Not available.

General notes: Generally not hazardous for water.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

Section 13. Disposal guidelines

Dispose all excess reagents and samples in biohazardous waste. Alternatively excess reagents and samples, as well as empty reagent containers can be autoclaved for at least one hour prior to discarding.

Observe all federal, state and local environmental regulations.

Section 14. Transport information

UN-Number: None

UN proper shipping name: None

Transport hazard class(es): None

Packing group: None

Environmental hazards: None

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": None

Section 15. Regulatory information and considerations

This safety Datasheet complies with the requirements of regulation (EC) No.1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Not determined.

Chemical safety assessment

Not determined.

Section 16. Other

The product is for research use only, not to be used on humans.