

MATERIAL SAFETY DATA SHEET

MagnaMedics



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1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAMES

bead type _____ bead diameter (μm)
MagSi-Tools 0.6, 1.0

Surface: Silica, COOH, CHO, NH₂ or SH

SUPPLIER

MagnaMedics Diagnostics BV
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PRODUCT USE

Laboratory chemical. For R&D use only.

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	EC No.	WEIGHT%	Hazard
surface modified amorphous silica beads of 0.6 μm or 1 μm with iron oxide core	-	-	1-2	-
Sodium azide	26628-22-8	247-852-1	0.01-0.1	Toxic
Water	7732-18-5	231-791-2	95-99	-
Sodium Chloride	7647-14-5	231-598-3	0.4	-
Di-Sodium Hydrogen Phosphate	7558-79-4	231-448-7	0.05	-
Potassium Phosphate	7778-77-0	231-913-4	0.01	-
Potassium Chloride	7447-40-7	231-211-8	0.01	-

3. Hazard Identification

Special indication of hazard

Product contains 0.05% Sodium Azide which is very toxic if swallowed. Contact with acids liberates very toxic gas. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

4. First Aid Measures

Skin contact:

Wash off immediately with plenty of water. Remove contaminated clothing.

Eye contact

Flush thoroughly with plenty of water, also under the eyelids

Inhalation

Move to fresh air

Ingestion

Wash out mouth with water provided person is conscious.

5. Fire Fighting Measures

Extinguishing media

Dry chemical powder

Special risks

Sodium azide emits toxic fumes under fire conditions and reacts with heavy metals to form explosive compounds

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit

6. Accidental Release Measures

Personal precaution procedures

Use personal protective equipment

Methods for cleaning

Soak up with inert absorbent material and rinse with water

7. Handling and Storage

Handling

No special handling advice required

Storage

Keep well closed in properly labeled container at 2-8°C

8. Exposure Controls / Personal Protection

Engineering measures

Ensure adequate ventilation

Personal protective equipment

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment

Hand protection: Compatible chemical resistant gloves

Eye protection: Safety goggles

Skin and Body protection: Lightweight protective clothing

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Exposure Limits

INGREDIENT NAME	EU OEL (TWA)	EU EOL (STEL)	EU Skin Notation	Austria OEL (MAK)	Belgium (TWA)	Denmark (TWA)	UK OEL (STEL)
surface modified amorphous silica beads of 0.6 µm or 1 µm with iron oxide core	-	-	-	-	-	-	-
Sodium azide	0.1 mg/m ³	0.3 mg/m ³	-	0.1 mg/m ³	0.1 mg/m ³	0.1 mg/m ³	0.3 mg/m ³
Water	-	-	-	-	-	-	-
Sodium Chloride	-	-	-	-	-	-	-
Di-Sodium Hydrogen Phosphate	-	-	-	-	-	-	-
Potassium Phosphate	-	-	-	-	-	-	-
Potassium Chloride	-	-	-	-	-	-	-

9. Physical and Chemical Properties

Appearance/ physical state:	Brown suspension of solid beads in liquid
Density:	1.01 g/m ³
Solubility:	Miscible in water
pH value:	7.4

10. Stability and Reactivity

Stability

Stability:	Stable
Conditions of instability:	extreme acid or basic environment

Hazardous decomposition products

No information available

Hazardous polymerization

Does not occur

11. Toxicological Information

Route / Signs and symptoms of exposure

Eyes:	May cause eye irritation
Skin:	No information available
Inhalation:	No information available
Swallowed:	No information available

Acute toxicity

INGREDIENT NAME	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
surface modified amorphous silica beads of 0.6µ, 1µ, or 2µ with iron oxide core	-	-	-
Sodium azide	27 mg/kg (rat)	20 mg/kg (rabbit)	37 mg/m ³

Water	-	-	-
Sodium Chloride	3 g/kg (rat)	10 g/kg (rabbit)	42 g/m ³ (rat)
Di-Sodium Hydrogen Phosphate	-	-	-
Potassium Phosphate	-	-	-
Potassium Chloride	-	-	-

Target organ information

No information available

Chronic exposure

No information available

12. Ecological Information

Ecotoxicological effects

No information available

Biodegradation

Biodegradable

Bioaccumulation

No information available

13. Disposal Considerations

Dispose of in accordance with local regulations

14. Transport Information

RID/ADR

Non-hazardous for road transport

IMDG

Non-hazardous for sea transport

IATA

Non-hazardous for air transport

15. Regulatory Information

R-phrases

No information available

S-phrases

No information available

16. Other Information

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 developed by MagnaMedics Diagnostics BV relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. It is user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. For R&D use only. Not for drug, household or other uses.