

1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product name: MagSi-proteomics C4

Catalogue number: MD01014; MD02014; MD03014; MD06014

1.2 Relevant identified uses of the substances or mixture:

In vitro diagnostic use & research use

uses advised against: In vivo use

1.3 Details of the supplier of the safety data sheet:

Office:

Vlotstraat 2-4

6417 CB Heerlen (The Netherlands)

Tel: +31-(0)46-820 0206

Fax: +31-(0)46-410 6825

E-mail: info@magtivio.com

Lab & Production:

De Asselen Kuil 12a

6161 RD Geleen (The Netherlands)

1.4 Emergency telephone number

Call your local emergency center.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):
Flam. Liq. 3; H226

P statements:
P210, P240, P241, P242, P243

2.2 Label elements



Warning

2.3 Other hazards

None.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredient	Identification	Classification	Concentration
Ethanol	Index: 603-002-00-5 EC nr. 200-578-6 CAS nr. 64-17-5	Flam. Liq. CAT. 2 H225	20.8%

4 FIRST AID MEASURES

4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation: Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact: wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment needed
No information available.

4.4 Self-protection of the first aider
First aider: Pay attention to self-protection!

4.5 Information to physician
No data available.

5 FIRE FIGHTING MEASURES

5.1 Fire extinguishing media

Suitable extinguishing media
Water spray; ABC-powder; carbon dioxide; (CO₂) nitrogen.

Unsuitable extinguishing media
No restriction.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: carbon dioxide (CO₂); carbon monoxide.

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Danger of explosion.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible:
Inhalation skin contact Eye contact Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Take precautionary measures against static discharges. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature: 2-8 °C

Storage class: 3

Keep container tightly closed in a cool, well-ventilated place. Keep/Store away from combustible materials.

7.3 Specific end use(s)

No data available.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.2.2 Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Eye/face protection: eye glasses with side protection DIN-/EN-Norms: DIN EN 166;
recommendation: VWR 111-0432.

Skin protection: when handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact

Suitable material	NBR (Nitrile rubber)
Thickness of the glove material	-
Breakthrough time (maximum wearing time)	240-480 min
Recommended glove articles:	VWR 112-3717 / 112-1381

By long-term hand contact

Suitable material	NBR (Nitrile rubber)
Thickness of the glove material	0,425 mm
Breakthrough time (maximum wearing time)	>480 min
Recommended glove articles:	VWR 112-0971

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (DIN EN 136/140)

Recommendation: VWR 111-0206

Suitable material: A2B2E2K2P3

Recommendation: VWR 111-0059

Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

8.2.3 Environmental exposure controls

No data available.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Beads of 1.2 µm in liquid.

9.2 Other Information

No data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity
No data available.

10.2 Chemical stability
No data available.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available.

10.5 Incompatible Materials
No data available.

10.6 Hazardous decomposition products
No data available.

10.7 Additional information
No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity: no data available.

Acute dermal toxicity: no data available.

Acute inhalation toxicity: no data available.

Irritant and corrosive effects

Primary irritation to the skin: not applicable.

Irritation to eyes: not applicable.

Irritation to respiratory tract: not applicable.

Respiratory or skin sensitisation

In case of skin contact: not sensitising.

After inhalation: not sensitising.

STOT-single exposure: not applicable.

STOT-repeated exposure: not applicable.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity: no indication of human carcinogenicity.

Germ cell mutagenicity: no indications of human germ cell mutagenicity exist.

Reproductive toxicity: no indications of human reproductive toxicity exist.

Aspiration hazard: not applicable.

Other adverse effects: no data available.

Additional information: no data available.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Acute (short-term) fish toxicity: no data available.
Chronic (long-term) fish toxicity: no data available.
Acute (short-term) daphnia toxicity: no data available.
Chronic (long-term) daphnia toxicity: no data available.
Acute (short-term) algae toxicity: no data available.
Chronic (long-term) algae toxicity: no data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Appropriate disposal / Product: dispose of according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

Appropriate disposal / Package: dispose of according to local legislation. Handle contaminated packages in the same way as the substance itself.

Additional information: no data available.

14 TRANSPORT INFORMATION

Ethanol	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	UN 1170		
14.2 Proper shipping name	Ethanol		
14.3 Class	3 F1		
14.4 Packing group	II		
14.5 Environmentally hazardous	-		
14.6 Special precautions for user	yes	no	yes
	Tunnel restriction: D/E		EmS: F-E, S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available.

15.2 Chemical Safety Assessment
No data available.

16 OTHER INFORMATION

Risk phrases, Safety phrases, Hazard statements and Precautionary statements referred elsewhere in the safety data sheet

Full text of H-Statements referred to under sections 2 and 3.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

Full text of P-Statements referred to under sections 2 and 3

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

Procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

Changes to previous version of the SDS : NA (first version)