

MATERIAL SAFETY DATA SHEET

According to EC Regulation No. 1907/2006



Version: 1
Date of Issue: 16.01.2014
Revision Date:

www.empbiotech.com

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the product

Substance Name: **Centri•Pure N500**
Hydrated Gel Filtration Columns
Catalogue No.: CP-0123

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Laboratory chemical
Uses advised against: Not known.

1.3 Detail of the supplier of the safety data sheet

Company: emp Biotech GmbH
Robert-Roessle-Str. 10
D-13125 Berlin

Telefon: +49-30-9489-2201 (Monday-Friday, 9:00 am-5:00 pm)
Telefax: +49-30-9489-3201
E-Mail: info@empbiotech.com

1.4 Emergency Number

INFOTRAC: +1-352-323-3500 (Phone) or in the **US 800-535-5053** (toll-free), 24 hours/day, 7 days/week

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

<i>Hazard classes and Hazard categories</i>	<i>Hazard Statements</i>
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Skin Sens. 1	H317
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(For the full text of the listed hazard classes, hazard categories and hazard statements see section 16)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

<i>Hazard symbol code(s)</i>	<i>R-phrases</i>
	R43

(For the full text of the listed hazard symbol code(s) and R-phrases see section 16)

2.2 Label elements

Label elements according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictograms



GHS07

Signal Word

Danger

Hazard Statements

H317 May cause an allergic skin reaction.

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Precautionary statements

P262 Do not get in eyes, on skin, or on clothing
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with soap and water
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard information (EU)

None

Label elements according to European Directive 67/548/EEC or 1999/45/EC

Hazard symbol(s)

None

R-phrases(s)

R43 May cause sensitisation by skin contact

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Description of the mixture

Liquid suspension

Hazardous ingredients

Component	Classification		Percentage
	according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]	according to EU Directives 1999/45/EC	
Reaction mass of: 5-Chlor-2-methyl-2H-isothiazol-3-on [EC No.: 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EC No.: 220-239-6] (3:1)			
CAS-No.: 55965-84-9 Index-No.: 613-167-00-5	Acute Tox 3; H301 Acute Tox 3; H311 Acute Tox 3; H331 Skin Corr. 1B; H314 (c ≥ 0,6 %) Skin Sens. 1; H317 (c ≥ 0,0015%) Skin Irrit. 2; H315 (0,06% ≤ c < 0,6%) Eye Irrit. 2; H319 (0,06% ≤ c < 0,6%) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	T; R23/24/25 C; R34 (c ≥ 0,6 %) Xi; R36/38 (0,06% ≤ c < 0,6%) R43 (c ≥ 0,0015%) N; R50/53	0.0015 – 0.06%
Magnesium nitrate			
CAS-No.: 10377-60-3 EG-No.: 233-826-7	Ox. Sol. 3; H272 Skin Irrit. 2; H319	O; R8 Xi; R36/37/38	0.03 – 0.04%

(For the full text of the listed hazard classes, hazard categories, hazard statements, hazard symbol code(s) and R-phrases(s) see section 16)

4. FIRST AID MEASURES

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4.1 Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation:

Supply fresh air.

After skin contact:

Wash off with plenty of water. Remove contaminated clothing. If skin irritation continues, consult a doctor.

After eye contact:

Rinse out with plenty of water with the eyelid held wide open (≥ 10 minutes).

After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting. Seek medical advice immediately and show the container or label. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

CO₂, powder, alcohol-resistant foam, water in large amounts.

Extinguishing media not to be used

No data available

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Do not stay in dangerous zone without suitable protection clothing and self-contained breathing apparatus.

5.4 Additional information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2 Environmental precautions

Do not allow to penetrate the ground/soil.

6.3 Methods and materials for containment and cleaning up

Pick up dust free and set down dust free. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

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7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of vapours/aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end uses

Liquid chromatography. Research and development.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Personal protection equipment

Ensure that eyewash stations and safety showers are close to the workstation location. Use with local exhaust ventilation. Prevent vapor buildup by providing adequate ventilation during and after use. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: A respiratory is not needed under normal and intended conditions of product use.

Eye protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection: Solvent-resistant gloves. Gloves must be inspected prior to use. Replace when worn. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. Due to missing tests no recommendation to the glove material can be given for the product.

Skin and body protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

- | | |
|--|--|
| a) Physical state: | White solid suspension in closed column. |
| b) Odour: | no data available |
| c) Odour Threshold: | no data available |
| d) pH value: | 7.4 |
| e) Melting point: | no data available |
| f) Boiling point: | no data available |
| g) Flash point: | Product does not sustain combustion. |
| h) Evaporation rate: | no data available |
| i) Flammability (solid, gas): | Not considered to be flammable. |
| j) Explosion limits: | no data available |
| k) Vapour pressure (20 °C): | no data available |
| l) Vapour density: | no data available |
| m) Relative density (20°C): | no data available |
| n) Solubility in water: | no data available |
| o) Partition coefficient:
n-octanol/water | no data available |
| p) Autoignition temperature: | no data available |

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- q) Decomposition temperature:
- r) Viscosity: no data available
- s) Explosive properties: Not considered to be a product presenting a risk of explosion.
- t) Oxidizing properties: no data available

9.2 Other safety 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

Heat, flames and sparks. Extremes of temperature and direct sunlight. Protect from exposure to air/oxygen (peroxide formation).

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LC50/EC50: Reaction mass aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1)
(CAS-Nr. 55965-84-9)
Oral, Ratte: LD50 = 53 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

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Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation: No known significant effects or critical hazards

Ingestion: No known significant effects or critical hazards

Skin: May cause an allergic skin reaction.

Eyes: No known significant effects or critical hazards

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other information

RTECS numbers (NIOSH): No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

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

Product

Offer surplus and non-recyclable suspension to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

14.2 UN proper shipping name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

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14.3 Transport hazard class(es)

ADR/RID:

IMDG:

IATA:

14.4 Packaging group

ADR/RID:

IMDG:

IATA:

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category (X, Y or Z): -

Type of ship (1, 2 or 3): -

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Used abbreviations and acronyms can be looked up under www.wikipedia.de

Full text of the listed hazard classes, hazard categories, hazard symbol code(s) and R-phrase(s) in section 2 to 15

According to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute Tox. 3	Acute toxicity: Oral, Categorie 3
Acute Tox. 3	Acute toxicity: Skin, Categorie 3
Acute Tox. 3	Acute toxicity: Inhalation, Categorie 3
Skin Irrit. 2	Skin irritation, Categorie 2
Skin Sens. 1	Skin sensitisation, Categorie 1
Skin Corr. 1B	Skin corrosion, Categorie 1B
Aquatic Acute 1	Hazardous to the aquatic environment: Acute, Categorie 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic, Categorie 1
Ox.Sol. 3	Oxidising solid, Categorie 3
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

According to European Directive 67/548/EEC or 1999/45/EC

T	Toxic
C	Corrosive
Xi	Irritant
N	Dangerous for the environment

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O	Oxidising
R8	Contact with combustible material may cause fire.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional information

This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. emp Biotech GmbH shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.