

# MATERIAL SAFETY DATA SHEET

According to EC Regulation No. 1907/2006



Version: 1

Date of Issue: 08.09.2016

Revision Date:

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

### 1.1 Identification of the product

Substance Name: **Zetadex-50 CM**  
Catalogue No.: TM-0205  
Index No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.  
REACH Registration No.: Not known.  
CAS No.: 9004-54-0

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

Identified use: Laboratory chemical, weak cation exchanger with carboxymethyl groups  
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

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## 2. HAZARDOUS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
Not a hazardous substance or mixture according to EC - directives 67/548/EEC or 1999/45/EC.

### 2.2 Label elements

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

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards

None

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

*Main component of the substance*

Substance Name: Zetadex-50 CM (bead formed composite cross-linked dextran with carboxymethyl groups)  
Synonyms: Z-50 CM  
Formula: No data available  
Molecular Weight: No data available  
CAS No.: 9004-54-0

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## 4. FIRST AID MEASURES

### 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. If not breathing, give artificial respiration. Consult a physician.

**After skin contact:**

Wash off with plenty of water and soap. Remove contaminated clothing.

**After eye contact:**

Rinse out with plenty of water with the eyelid held wide open ( $\geq 10$  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

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## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media**

CO<sub>2</sub>, 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

Carbon oxides.

### 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

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not allow to penetrate the ground/soil.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

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For disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust. In case of dust formation care appropriate exhaust.

### 7.2 Conditions for safe storage, including any incompatibilities

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

Moisture sensitive.

Recommended storage temperature: ambient.

### 7.3 Specific end uses

No data available.

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## 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***

*Respiratory protection:* In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device only when aerosol or mist is formed. Required when vapours/aerosols are generated.

*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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Important health, safety and environmental information

- |                      |                    |
|----------------------|--------------------|
| a) Physical state:   | White solid        |
| b) Odour:            | no data available  |
| c) Odour Threshold:  | no data available  |
| d) pH value:         | no data available  |
| e) Melting point:    | no data available  |
| f) Boiling point:    | no data available  |
| g) Flash point:      | no data available. |
| h) Evaporation rate: | no data available  |

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- i) Flammability (solid, gas): no data available
- 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: no data available  
n-octanol/water
- p) Autoignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: no data available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

## 9.2 Other safety information

No data available.

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## 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

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### ***Acute toxicity***

No data available

#### ***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.

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## ***Reproductive toxicity***

No data available

## ***Specific target organ toxicity - single exposure***

No data available

## ***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:** No known significant effects or critical hazards

**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

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## **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

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## **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.

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## **14. TRANSPORT INFORMATION**

### **14.1 UN number**

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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.

## 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): -

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## 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

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## 16. OTHER INFORMATION

Used abbreviations and acronyms can be looked up under [www.wikipedia.de](http://www.wikipedia.de)

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

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

No data available

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

No data available

### **Additional information**

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