



HeGo Biotec GmbH  
14167 Berlin

Date printed 09.08.2011, Revision 09.08.2011

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## 1 Identification of the substance / preparation and of the company

### 1.1 Product identifier

**FerroSorp® DG**

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

#### 1.2.1 Relevant uses

Binding of hydrogen sulphide into anaerobic reactors.

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

HeGo Biotec GmbH

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14167 Berlin / GERMANY  
Phone: +49 (0)30 847 185 50  
Fax: +49 (0)30 847 185 60  
Homepage: www.hego-biotec.de  
E-mail: info@hego-biotec.de

#### Address enquiries to

#### Technical information

info@hego-biotec.de

#### Safety Data Sheet

sdb@chemiebuero.de

### 1.4 Emergency phone

+49 (0)30 847 185 55 (24h)

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not determined

#### 2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

The product does not require a hazard warning label in accordance with EC-directives.

### 2.2 Label elements

#### Hazard symbols

none

#### R-phrases

none

#### S-phrases

none

#### Special labelling

Safety data sheet available for professional user on request.

### 2.3 Other hazards

#### Physico-chemical hazards

No particular hazards known.

#### Human health dangers

No particular hazards known.

#### Environmental hazards

Does not contain any PBT or vPvB substances.

#### Other hazards

none

## 3 Composition / Information on ingredients

### 3.1 Substances

The product in question is a mixture.



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**3.2 Mixtures**

Range [%]	Substance
10 - 30	Calcium carbonate
	CAS: 471-34-1, EINECS/ELINCS: 207-439-9
	GHS/CLP: not determined
1 - < 10	Manganese dioxide
	CAS: 1313-13-9, EINECS/ELINCS: 215-202-6, EU-INDEX: 025-001-003
	GHS/CLP: Acute Tox. 4, H302 H332
	EEC: Xn, R 20/22

**Comment on component parts**

- Substance(s) exempted from the registration requirement (Title II) according to the REACH-Regulation 1907/2006/EC (e) (Art. 2 paragraph 7 sub-section d, or Art. 2 paragraph 7 sub-section b, as they accord with Appendix V Point 7 or Point 8).  
For the wording of the listed risk phrases refer to section 16.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

**4 First aid measures****4.1 Description of first aid measures**

<b>General information</b>	Change powdered clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek for medical treatment.
<b>Ingestion</b>	Seek medical advice immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5 Fire-fighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	none

**5.2 Special hazards arising from the substance or mixture**

none

**5.3 Advice for firefighters**

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.  
Use breathing apparatus if exposed to dust.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.



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**6.3 Methods and material for containment and cleaning up**

Take up mechanically.  
 Avoid raising dust.  
 Dispose of absorbed material in accordance within the regulations.

**6.4 Reference to other sections**

See Chapter 8+13

**7 Handling and storage****7.1 Precautions for safe handling**

Avoid the formation and deposition of dust.  
 Provide vacuuming if dust raised.

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

Keep in a well-ventilated place.

**7.3 Specific end use(s)**

See product use, Chapter 1.2

**8 Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Range [%]	Substance / WEL: Workplace exposure limit
10 - 30	Calcium carbonate / - ppm, 10 mg/m <sup>3</sup> , inhalable dust
1 - < 10	Manganese dioxide / - ppm, 0,5 mg/m <sup>3</sup> , as Mn

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses.
<b>Hand protection</b>	butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	not applicable
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Wash hands before breaks and after work. Use barrier skin cream. Do not eat, drink, smoke or take drugs at work.
<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P2.
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	not determined



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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	powder
Color	red-brown
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	7,5-8,5
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	700 - 900
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

### 9.2 Other information

none

## 10 Stability and reactivity

### 10.1 Reactivity

See chapter 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

See chapter 7

### 10.5 Incompatible materials

Violent production of carbon dioxide gas under influence of (strong) acids.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Range [%]	Substance
10 - 30	Calcium carbonate, CAS: 471-34-1
	LD50, oral, Rat: 6450 mg/kg bw (IUCLID).
	LC0, inhalative, Rat: 0,0812 mg/L (90 min) (IUCLID).

<b>Serious eye damage/irritation</b>	not determined
<b>Skin corrosion/irritation</b>	not determined
<b>Respiratory or skin sensitisation</b>	not determined
<b>Specific target organ toxicity — single exposure</b>	not determined
<b>Specific target organ toxicity — repeated exposure</b>	not determined
<b>Mutagenicity</b>	not determined
<b>Reproduction toxicity</b>	not determined
<b>Carcinogenicity</b>	not determined
<b>General remarks</b>	

Toxicological data are not available.

No classification on the basis of the calculation procedure of the preparation directive.

## 12 Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

	not determined
<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not applicable

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

## 13 Disposal considerations

### 13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

#### Product

For recycling, consult manufacturer.

#### Waste no. (recommended)

060316

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

#### Waste no. (recommended)

150102



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## 14 Transport information

### 14.1 UN number

See point 14.2 in accordance with UN shipping name

### 14.2 UN proper shipping name

Classification according to ADR	NO DANGEROUS GOODS
Classification according to IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Classification according to IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

### 14.4 Packing group

See point 14.2 in accordance with UN shipping name

### 14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

### 14.6 Special precautions for user

Relevant information under points 6 to 8.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

## 15 Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

### 15.2 Chemical safety assessment

not applicable

## 16 Other informations

R-phrases (Chapter 03)	R 20/22: Harmful by inhalation and if swallowed.
Hazard statements (Chapter 03)	H302 H332 Harmful if swallowed or if inhaled.
Observe employment restrictions for people	no
VOC (1999/13/CE)	0 %
Customs Tariff	not determined

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