



# Safety Data Sheet according to 91/155/EWG

Version:1.0 replaces Version: --

Date:22.09.2009

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

### 1.1 Commercial product name: Geohumus

Product code: GH-01-B

Product group: soil enhancer

### Use of the substance/preparation

Soil Enhancer with water and nutrients storing capacity based on polyacrylate and Rock

### 1.2 Information manufacturer/supplier

Geohumus International GmbH

Carl Benz Strasse 21

D-60386 Frankfurt a. M.

Telephone : +49/(0)69/444777

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Contact person : Carsten Rupprich

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## 2. Composition/information on ingredients

### Chemical characterization

Composite material consisting of partly neutralized polyacrylic acid, rock flour and water

### Hazardous components

None

## 3. Hazards identification

### Classification

Symbols : None

R-phrases : None

S-phrases : None

### Explication of special hazards for human health and environment

None known.

## 4. First aid measures

### General information

None.

### After inhalation

None, product does not contain any dust particles.

### After contact with skin

Wash off with soap and warm water.

### After contact with eyes

In the case of contact with eyes, rinse with plenty of water.

### After ingestion

Remove from exposure, lie down. In the case of accident or if you feel unwell, seek medical advice immediately.

Product is inert and absolutely nontoxic.

## 5. Fire-fighting measures

### Suitable extinguishing media

Product is not inflammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Extinguishing media that must not be used for safety reasons

None known.

### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

None known.



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### Special protective equipment for firefighters

No special technical protective measures required.

### Additional information

No special protective measures against fire required

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## 6. Accidental release measures

### Personal precautions

No personal protective equipment required.

### Environmental precautions

None.

### Methods for cleaning up/taking up

Take up mechanically and collect in suitable container for disposal. Do not use water because of the swelling capacities of the material.

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## 7. Handling and storage

### 7.1 Handling

#### Advice on safe handling

No special handling advice required.  
Use gloves for mechanical protection.

### 7.2 Storage

#### Requirements for storage rooms and vessels

Store at room temperature in the original containments, humidity should be avoided. Freezing will affect the physical condition but will not damage the material.

#### Advice on protection against fire and explosion

No special handling advice required.

#### Further information on storage conditions

Keep containments closed.

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## 8. Exposure controls/personal protection

### 8.1 Exposure limit values

#### Exposure limits (EH40)

None.

### 8.2 Exposure controls

#### Protective and hygiene measures

Avoid contact with skin, eyes. Wear suitable gloves and eye protection. Keep away from food, drink and animal feeding stuffs. When using do not eat or drink.

#### Respiratory protection

not required under normal use.

#### Hand protection

Gloves for mechanical protection.

#### Eye protection

safety glasses recommended.

#### Body protection

Avoid contact with skin.

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## 9. Physical and chemical properties

### 9.1 Appearance

Form: solid

Colour: grey-brown

Odour: slightly soapy

### 9.2 Important health, safety and environmental information

#### Test method

pH Value 6,0-7,0 (at 20 °C)



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### Changes in the physical state

Boiling point: not applicable.  
Sublimation point: not applicable.  
Softening point: 80 °C  
Stock point: not applicable  
Thermal defragmentation: >275°C  
Flash point: >300 °C, dried product, no self-infl ammating potential  
Explosion Limits: not applicable  
Autoignition temperature: no autoinflammation potential  
Vapour pressure: not applicable  
Water solubility: not soluble

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## 10. Stability and reactivity

### Materials to avoid

None.

### Hazardous decomposition products

No decomposition if stored and applied as directed.

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## 11. Toxicological information

### Acute toxicity

None. (LD50 oral rat:>2000mg/kg)

### Specific effects in experiment on an animal

None known.

### Irritancy and corrosiveness

None known.

### Sensitising effect

None known.

### Subacute, subchronic and prolonged toxicity

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis.

### Carcinogenity, mutagenicity and reproductive toxicity

None known.

### Additional information on tests

No persistent or cumulative effects were observed.

### Empirical data on effects on humans

No exceptional reactions have been constated, Geohumus can be classified as toxicological harmless.

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## 12. Ecological information

### Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Toxidity test on fish: *Brachydanio renio* 2 cm, LC<sub>50</sub> = 6,62 g/L (OECD 203)

Toxidity on Daphnia: *Daphina magna Strauß*, EC<sub>50</sub> = 26,8 g/L / 48 h (OECD 202 und DIN EN ISO 6431)

Toxidity on Lightbakteria: *Vibrio fischeri*; EC<sub>20</sub> = 44,2 g/L; EC<sub>50</sub> = 53 g/L, ( DIN EN ISO 11348-2

### Persistence and degradability

5%/28days (OECD 302 B), slow biodegradability

### Bioaccumulative potential

Does not bioaccumulate. Ecological injuries are not known or expected under normal use.

### Other adverse effects

None known.

### Additional information

Does not contain any heavy metal ions or compositions of in means of guidance 76/464/EWG.

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### 13. Advice on disposal

#### Dispose

Disposal of product has to be conform to laws and guidelines of national and local waste disposal authorities.

Waste Code: 160306

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### 14. Transport information

#### 14.1 Land transport (ADR/RID)

Warnings plate : None.

#### Description of the goods:

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

#### 14.2 Inland waterways transport

##### Description of the goods

Not dangerous goods

#### 14.3 Marine transport

##### Description of the goods

Not dangerous goods

#### 14.4 Air transport

##### Description of the goods

Not dangerous goods

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### 15. Regulatory information

#### 15.1 Labelling

##### Indication of danger

None.

##### Labelling according to EC-guidelines

None.

##### R phrases

None.

##### S phrases

None.

#### 15.2 National regulations

Statutory order on hazardous incidents: not mentionend in appendix II

VBF Classification: not applicable

TA- Air regulations: not applicable

Water contaminating class: not water contaminating

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### 16. Other information

#### Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

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