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FILLING MATERIAL



**GEOCELL FOAM GLASS BUBBLES  
MATERIAL AND SAFETY DATASHEET**

VERSION AUGUST 2015



**GEOCELL**  
BLÄHGLAS

A HIGH QUALITY RECYCLING GLASS PRODUCT

# MATERIAL AND SAFETY DATA SHEET

## GEOCELL® FOAM GLASS BUBBLES

(Voluntary product information based on the Material Safety Data Sheet requirements according to regulation (EG) No. 1907/2006 (REACH) and (EU) 453/2010)

### 1. Company Name and Trade name

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- 1.1 **Product Identifier:** GEOCELL foam glass bubbles  
Grain sizes in mm: 2-4 / 4-8
- 1.2 **Usage of the material/mixture:**  
Mineral lightweight aggregate for building materials (e. g. render, mortar, tile adhesive, lightweight concrete), fills, panels and plastics
- 1.3 **Details of the supplier, which provide this Material Safety Data Sheet**  
**Manufacturer:** GEOCELL Schaumglas GmbH  
Werk PH  
Gewerbegebiet-Ost 17  
92353 Postbauer-Heng / Germany  
Phone: +49 (0) 37421 20782  
E-Mail: kontakt@geocell-schaumglas.eu  
Internet: www.geocell-schaumglas.eu
- 1.4 **Emergency phone:** +49 (0) 9188 9402-0

### 2. Possible dangers

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- 2.1 **Classification of the material/mixture**  
This product is excluded from the specific labelling requirements of 1999/45/EG, guideline 67/548/EWG and 1272/2008(CLP).
- 2.2 **WHMIS-Symbols** None
- 2.2 **Other dangers** By destruction of the granules structure at improper use the dust may cause irritations at eyes and respiratory tract.
- Safety note:** P262 avoid contact with your eyes, skin or clot
- Note for doctor:** Show this data sheet to attending doctor.

### 3. Composition/Information on ingredients

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GEOCELL® is an article according to REACH and not a raw material or mixture. It is excluded from the labelling requirement (see item 15.2)

**Chemical description:** non-organic, thermally expanded glass granulate on basis of post consumer glass (container glass and flat glass - soda-lime-silica glass)

<b>Ingredient:</b>	<b>Chemical formula</b>	<b>typical % by weight</b>
Silicium Dioxide	SiO <sub>2</sub>	71
Sodium Oxide	Na <sub>2</sub> O	14
Calcium Oxide	CaO	9
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	3
Magnesium Oxide	MgO	2
Potassium Oxide	K <sub>2</sub> O	1
CAS no.:	65997-17-3	
EC no./EINECS no	266-046-0	
Index no.:	Not controlled/Not regulated	
Additional details::	Not applicable	

### 4. First aid measure

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- 4.1 **Description of the first aid measures:**
- after inhalation: Remove to fresh air immediately. If breathed in, seek medical aid.
- after skin contact: Wash skin with soap and water. Disrobe soiled clothing and shoes. Consult a doctor in case of irritations.
- after eye contact: Flush eyes with plenty of running water for at least some minutes. Consult a doctor if considerable disturbances appear.
- after ingestion: There are not known any effects. Irritations of the mouth, throat, trachea and gastro-intestinal tract are possible. Allow the casualty to rinse his or her mouth and give some water to drink, consult a doctor.

# MATERIAL AND SAFETY DATA SHEET

## GEOCELL® FOAM GLASS BUBBLES

- 4.2 The most important, urgent and delayed symptoms and effects  
There are not known any typical symptoms and effects.

### 5. Fire fighting measures

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- 5.1 Extinguishing agent not applicable, product is non-flammable  
5.2 Special risks of the material/mixture  
No special risks caused by the product or mixture.  
5.3 Information about fire fighting  
The extinguishing agent should be chosen according to the primary cause of fire

### 6. Accidental release measures

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- 6.1 Personal precaution and protective equipment  
Use personal safety equipment. The usage of a particle filtered protective mask is indicated.  
6.2 Measures for environmental protection  
Product shouldn't get into the canalisation, because it floats on the water due to its low density, and may cause blocked pipes  
6.3 Procedure to stop spillage and measures for cleaning  
Remove spillage in accordance with Section 8. Sweep or vacuum the spillage and dispose it properly.  
6.4 Reference to another paragraph  
Instructions for disposal see paragraph 13

### 7. Handling and storage

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- 7.1 Notes for safe handling  
Avoid formation of dust. The usage of particle filtered protective mask P2 is required if the dust concentration rises above the reference value. Avoid contact with eyes. Avoid ingestion or inhalation.  
7.2 Notes for safe storage in consideration of incompatibility  
Protect against humidity  
7.3 Specific usage  
Maximum blowing pressure for pneumatic conveyors is 0,8 bar

### 8. Exposure controls/personal protection

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#### 8.1 Controlled parameter

Exposure limits German occupational exposure limit value AGW  
(= „Arbeitsplatzgrenzwert“ - general maximum dust emission)  
respirable dust: 3 mg/m<sup>3</sup>  
total inhalable dust: 10 mg/m<sup>3</sup>  
exceedance factor and category: 2 (II)  
These values are reference dust values. Reference dust values vary depending on the country of application.

#### 8.2 Limitation and controlling of the exposition

##### Personal protective Equipment

Respiratory protection: The usage of a particle filtered protective mask P2 is required if the dust concentration rises above the reference AGW value.  
Eye protection: Wear safety glasses with side shields to protect against eye contact.  
Hand protection: Wear suitable protective gloves in order to minimize skin contact.  
Body protection: Wear general purpose work suite to protect skin from irritation.  
Specific hygienic measures: Not applicable

# MATERIAL AND SAFETY DATA SHEET

## GEOCELL® FOAM GLASS BUBBLES

### 9. Physical and chemical properties

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#### 9.1 Information about the basic physically and chemical properties

Physical state:	solid/powder, grain sizes 0,04 - 16 mm
Appearance:	creamy white
Odour:	Odourless
Change in state	
Boiling point:	Not expedient; It's a mineral product
Melting point:	approx. 900°C (1650°F), published values of container glass
Softening point:	approx. 700°C (1292°F), DIN ISO 7884-6
Flashpoint:	non-combustible
Explosion limit:	not applicable
Vapour pressure:	not applicable
Specific gravity:	110-600 kg/m <sup>3</sup> depending on grain size, DIN 52110A
Solubility in water:	water-insoluble
ph-value:	approx. 8-11 (20°C / 100g/l), pH-meter
Danger of dust explosion:	not applicable

#### 9.2 Further information

Viscosity:	not applicable
Vapour density (air = 1):	not applicable

### 10. Stability and reactivity

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10.1 Reactivity	not reactive
10.2 Stability Stable	under normal temperature and pressure conditions
10.3 Possible danger reactions	Not applicable
10.4 Conditions to avoid	temperatures above 900° C, product starts to melt
10.5 Incompatibility (material to avoid)	hydrofluoric acid (HF); material dissolves by generation of H <sub>2</sub> SiF <sub>6</sub>
10.6 Hazardous decomposition or by-products	Not applicable

### 11. Toxicological information

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Acute toxicity (LD50/LC50):	
RTECS:	unavailable
Inhale:	unknown
Skin contact:	not applicable
Sensitization:	not applicable
Eye contact:	Irritations may appear
Ingestion:	Irritations of the mouth, trachea and gastro-intestinal tract may appear

### 12. Environmental Information

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12.1 Toxicity	potential of hereditary genetic changes: None ecotoxicological effects: Not applicable Subacute to chronic toxicity: no data available Repeated dose toxicity: Unknown
12.2 Persistence and degradability	biological nondegradable, as of mineral origin
12.3 Bioaccumulation	not determinable, because it is not fat-soluble
12.4 Mobility in the soil	Not applicable
12.5 Results of the PBT- and vPvB-Evaluation	
	Resistance according to mineral materials
12.6. Further harmful effects	unknown

### 13. Disposal considerations

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Disposal in accordance with federal, state and local regulation.	
AVV Refuse code:	170202
Refuse description:	Soda-Lime-Expanded glass granulate
AVV packing:	Not applicable

# MATERIAL AND SAFETY DATA SHEET

## GEOCELL® FOAM GLASS BUBBLES

### 14. Transport information

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14.1 UN-Number	irrelevant
14.2 proper UN-shipping name	irrelevant
14.3 transport hazard class	
Road transportation GGVSE:	Not a hazardous material
RID/ADR:	Not applicable
Warning sign no.:	Not applicable
Inland waterway transportation ADN/ADNR:	
	Not a hazardous material
Sea transport IMDG/GGVSee:	Not a hazardous material
IMO:	Not a hazardous material
GGV/Sea-packing group:	Not applicable
EMS:	Not applicable
MFAG:	Not applicable
Air transportation ICAO/IATA:	Not a hazardous material
ICAQ-packing group:	Not applicable
14.4 Packing group	irrelevant
14.5 Environment danger	irrelevant
14.6 Special precautions	protect against humidity; maximum blowing pressure: 0,8 bar
14.7 Bulk commodity transport according to appendix II of the MARPOL-Agreement	
	73/78 and according to IBC-Code irrelevant

### 15. Legislation

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#### 15.1 Instructions for safety, health- and environmental protection/specific legislation for the product or mixture Labelling in accordance to EG-guidelines

Danger symbol:	no labelling required
Danger defining components:	Not applicable
R-phrases:	Not applicable
S-phrases:	S 24/25 avoid contact with eyes and skin
Special identification of certain preparations:	
	Not applicable

#### German national guidelines

Classification according to „StörfallVO“:	Not applicable
Classification according to „VBF“:	Not applicable
Classification according to „TA-Luft“:	Not applicable
Water pollution classification:	not hazardous to water, according to VwVwS appendix 3 No. 5 paragraph b
Resorption by Skin/Sensitizing:	no data available
Additional guidelines:	no labelling required (according to Canadian WHMIS Classification)

#### 15.2. Evaluation of the product

This product is excluded of the REACH-Registration obligation according to EC 1907/2006 appendix V.11

### 16. Further information

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This Voluntary Product Information generally follows the scheme of a Material Safety Data Sheet (16 sections). We would like to point out that this is a voluntary service. There is no obligation for Poraver to make these documents available. The details are based on today's state of our knowledge and serve to describe the product with regard to the correct safety regulations. It does not represent any assurance of product properties and does not give reasons for any contractual facts of the case. Users must decide even on the suitability of this information for her certain purpose.  
The data sheet is created by following section: Laboratory.

**GEOCELL® FOAM GLASS BUBBLES**

**AN ECOLOGIC INSULATING MATERIAL**

**GEPRÜFTE QUALITÄT**

DIBT-ZULASSUNG Z-23.11-114

**AUSGEZEICHNET MIT DEM  
ÖSTERREICHISCHEN UMWELTZEICHEN.**

Bestehen Sie darauf!



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