



EC – MATERIAL SAFETY DATA SHEET

Q 1016
REV 00 / 2003
12.11.2003

Material Safety Data Sheet according to 93/112/EC in the version 2001/58/EG

Trade Name: *Glass Beads*

Issue date: 26/02/2009

Revised to: 31/03/2004

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1. Chemical product and company identification

Data to the Product: Blasting material for mechanical surface processing by means of compressed air

Product name: Glass beads

Manufacturer: MICROBEADS AG
Neumarkt 2
CH-5201 Brugg /Schweiz
Phone: +41 56 441 16 11
Fax : +41 56 441 55 15

In case of emergency call: **Microbeads Sales Department**
Phone: +41 (0) 56 441 16

2. Composition/Information on ingredients:

Chemical composition:

SiO ₂	min. 65,0 %
Al ₂ O ₃	0,5 - 2,0 %
Fe ₂ O ₃	max. 0,15 %
MgO	min. 2,5 %
CaO	min. 8,0 %
Na ₂ O	min. 14,0 %
others	max. 2,0 %

Dangerous contents materials: no dangerous materials

Traces of lead < 200 mg / kg

Cas-Nr: 65997-17-3

Index-Nr: 000-000-00-0

EINECS-Nr: 266-046-0

3. Potential health hazards:

Classification: No dangerous product in the sense of the guideline 1999/45/EG

Special danger references for humans and environment: There are no significant immediate health, physical or environmental hazards. Please you consider however the information of this safety data sheet (see point 11; 12; 15)

4. First Aid Measures

Inhalation: no special measures required

Skin: no special measures required

Eye: Wash with plenty of water. If irritation persists, consult physician.

Shallow: no danger admits

Advice to physician: No specific advice. Treat according to symptoms present.

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5. Fire-fighting measures

Extinguishing media:	Product is not combustible. Choose extinguisher suitable for surrounding fire.
Unsuitable extinguishing medias:	none admits
Exposure hazards:	none admits
Special equipment:	co-ordinate with environment fire

6. Accidental release measures

Personal protection:	Avoid dust. Withdrawn material causes slip hazard.
Environmental protection measures:	no special measures
Procedure for cleaning and recollection:	Take up mechanically and in accordance with point 13 dispose the material. Avoid breathing dust.

7. Handling and storage

Handling:	
References to safe handling:	See point 6. Avoid breathing dust. Avoid dust and provide for good space ventilation. If necessary switch local withdrawal system.
References to the fire and explosion prevention:	Not applicable
Storage Requirements at storage and Containers:	Product in passages and staircases do not store
Further data to the storage conditions:	store in dry and cool conditions
Storage class(VCI):	13 (not inflammable solids)

8. Exposure controls/Personal protection

Engineering controls:	is void
Components with value that require to supervising the workplace:	Provide for good ventilation. This can be achieved by local exhaust or general exhaust air. If this is not enough to keep the concentration under the MAK-value, a suitable respiratory protection is required (3(6) mg/m ³ A, 10 mg/m ³ E (2.4 TRGS 900) (general dust limit value)
Personal protection equipment:	
Respiratory protection:	During dust formation a suitable dust mask with an appropriate filter (EN143) is required.
Eye protection:	Clothing goggles with side protection (EN166)
Hand protection:	Safety gloves, appropriate of neoprene (EN374)
Body protection:	appropriate work clothes

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8. Exposure controls/Personal protection

Further information to hand protection - No tests were accomplished. The selection was selected after best knowledge and over the information of the contents materials. The selection was derived with materials from the data of the glove manufacturers. The final selection of the glove material must take place considering of the break-through times and the permeation rates. The selection of a suitable glove depends and from manufacturer to manufacturer different not only on the material, but also on further quality criteria. With preparing the stability of hand shoe materials is not ahead calculable and must be examined therefore before the employment. The exact break-through time of the glove material is to be kept with the protection glove manufacturer to experiencing and.

9. Physical and Chemical Properties

Physical state:	Solid
Colour:	White
Odour:	None
Melting point:	ca. 630°C
Flash point:	Not applicable
In flammability:	Not applicable
Ignition temperature:	Not applicable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Steam pressure:	Not applicable
Specific gravity:	2,5 g/cm ³ (20°C)
Solubility in water:	Not applicable
pH value in water:	11-12

10. Stability and Reactivity

Condition to avoid:	See point 7. During adequate storage and handling not to expect (stably).
Material to avoid:	See point 7. None admits
Hazardous decomposition products:	None admits

11. Toxicological Information**Acute toxicity as well as immediately arising effects:**

Swallow, LD50 rat orally (mg/kg):	no data available
Inhale; LC50 rat inhalation (mg/l/4h):	no data available
Skin contact, LD50 rat dermal (mg/kg):	no data available
Eye contact:	no data available

Retards arising as well as chronic effects:

sensitising effect:	no data available
Carcinogenic effect:	no data available
Hereditary property-changing effect:	no data available
Reproduction-endangering effect:	no data available
Anaesthetizing effect:	no data available

Other references:

It concerns a product. After the present conditions of our knowledge the product does not lead on normal application conditions to an endangerment of humans.

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12. Ecological Information

Water hazard class:	no hazardous for water
Self-assessment:	Yes (VwVwS (German regulation))
Persistence and decomposition:	The Product does not contain AOX (organically bonded halogen compounds).
Behaviour in wastewater treatment plants:	In the case of adequate use, there are no disturbance to be expected. Mechanical separating is possible.
Aquatic toxicity:	Not to expect
Ecology toxicity:	Not to expect
Accumulation:	Not to expect

13. Disposal Considerations

Product:	Material is to be disposed considering the valid in each case local/national regulations.
Uncleaned packaging:	Packaging is to be emptied completely and considering the valid in each case local/national regulations, prefers a re-use and/or an utilization supplying.

14. Transport Information

Land Transport:	
GGVS/GGVE	Not regulated
ADR/RID	Not regulated
Identification of the Product:	
Danger number:	UN nr:
River/Canal-transport:	
ADN/ADNR	Not regulated
Sea-transport:	
IMDG/GGV Sea-code	Not regulated
Air-transport:	
ICAO/IATA-DGR	Not regulated
Other information:	No danger property, may be sent by mail.

15. Regulatory Information

Marking according to EU - guidelines (67/548/EWG and 1999/45/EG)	
Danger symbols:	Is void
R-phrases:	Is void
S-phrases :	Is void
VOC 1999/13/EEC	- - -

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16. Other Information

These data refer to the product in the delivering condition.

The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which result directly or indirectly from the use of such information.

Changes in this version:

- general revision
 - addition in the headline: "in the version 2001/58/EG" -
 - chapter 7
 - chapter 8
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