



MICROBEADS AG
Wambisterstrasse 1a, CH-5412 Gebenstorf / Switzerland
info@microbeads-ag.ch, www.microbeads-ag.ch

Trade name : Glass granulate

Material Safety Data Sheet according (in support) to Directive (EG) no. 1907/2006

Issue date: January 2020

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1. Chemical product and company identification

Product name: Glass granulate

Data to the Product: Blasting material for mechanical surface processing
production of wear-resistant materials raw material for enamel slurry
production of wear-resistant materials

Manufacturer: MICROBEADS AG
Wambisterstrasse 1a
CH-5412 Gebenstorf
Phone: 0041 56 441 16 11
Fax: 0041 56 441 55 15
E-mail: info@microbeads-ag.ch
Webseite: www.microbeads-ag.ch

Emergency phone no.: Sale Department Microbeads AG
Emergency phone no.: 0041 56 441 16 11

2. Composition/Information on ingredients:

Main components	Haz.-Symbol	Wt.-%	R-phrases	CAS	EINECS
Siliciumoxid	---	> 70	---	7631-86-9	231-545-4
Aluminiumoxid	---	0,5 – 2,0	---	1344-28-1	215-691-6
Iron oxide	C	< 0,15	---	1309-37-1	215-168-2
Magnesium oxid	---	> 2,5	---	1309-48-4	215-171-9
Calciumoxid	C	> 8,0	34	1305-78-8	215-138-9
Sodium oxide	---	> 14	---	1313-59-3	215-208-9

This product contains no free components in concentrations that make a classification as hazardous according to EU Directive. The product contains no substances will continue to be listed in the SVHC.

The above ingredients in the product are not readily available, but in the glass firmly bound.

3. Potential health hazards:

Critical hazard to man and environment:

EC/R: not applicable

Classification:

The classification after this preparation health and environmental dangerous Characteristics takes place according to the conventional method with consideration of the new preparation Directive (1999/45/EG) and 67/548/EWG



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4. First Aid Measures

Inhalation:	no special measures required
Skin:	no special measures required
Eye:	Wash with plenty of water. Seek medical advice if irritation persists.
Shallow:	no danger admits
Advice to physician:	No specific advice. Treat according to symptoms present.

5. Fire-fighting measures

General information:	Product itself is flammable
Suitable extinguishing media:	us extinguishing media appropriate to the source of the fire.
Extinguishing media which must not be used for safety reasons:	none know
Special exposure hazards arising from the substance itself, combustion	
products, resulting gases:	none know
Special protective equipment:	not applicable

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.
Storage class (VCI):	13 (not inflammable solids)



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8. Exposure controls/Personal protection

Engineering controls: is void

Components with value that require to supervising the workplace:

Observe the local bylaws in terms of fine dust (e.g. TWA 10 mg /m³; MAK value 6 mg / m³; see also item 16)

Personal protection equipment:

Respiratory protection:

Observe standard industrial hygiene

Eye protection:

Clothing goggles with side protection (EN166)

Hand protection:

Safety gloves, appropriate of neoprene (EN374)

Body protection:

appropriate work clothes

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:	granulate or powder
Colour:	White, transparency
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
Partition coefficient n-octanol/water:	Not applicable



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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.

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



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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 ADR/RID and GGVS/GGVE: non hazardous material

Inland waterway transport ADN/ADNR: non hazardous material

Sea-transport IMDG/GGVS/UN: non hazardous material

Air-transport ICAO/IATA UN/ID: non hazardous material

Other information: No danger property, may be sent by mail.

15. Regulatory Information

Classification according to EC directives:

Danger symbol and danger-text of the material: none

EC / R: none

EC / S: none

National regulations:

e.g.: (Germany) Classification according VbF: not subjected to VbF

Water Pollution Category: not water polluting VwVwS (Germany) dated 27.07.2005

16. Other Information

These data refer to the product in the delivering condition.
The information covers the safety requirements of the product(s) exclusively and is based on current knowledge and experience. It does not represent a guarantee for properties of the described product (s) in terms of the legal warranty regulations. The product specification is contained in a separate product data sheet.

Changes in this version:

- general revision
- replace the version of 27.11.2008