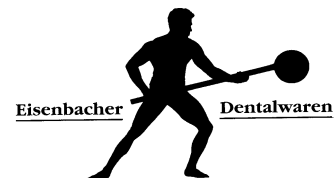


# Safety Data Sheet


## -Glassbeads-

According to EG 1907/2006 (REACH)



Version no.: 02

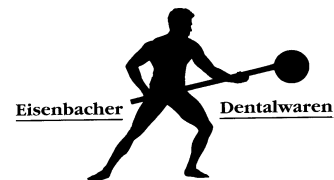
Effective as of: 02/2014  
Replaces version no. 01 date 06/2013

1. Identification of the substance/preparation and of the company	
1.1 Trade name:	Glassbeads
1.2 Product name:	Glassbeads
Product form:	Glassbeads
Purpose:	Glass beads are used in surface treatment.
1.3 Manufacturer:	Eisenbacher Dentalwaren ED GmbH
Street:	Dr.-Konrad-Wiegand-Strasse 9
ZIP/city/Country.:	63939 Woerth am Main / GERMANY
Phone:	+ 49 (0)93 72 - 94 04 0
Fax:	+ 49 (0)93 72 - 94 04 29
Information department:	Klaus Renner + 49 (0)93 72 - 94 04 130 k.renner@eisenbacher.de
Emergency information:	Tel.: + 49 (0)93 72 - 94 04 130
Email:	info@eisenbacher.de
Homepage:	www.eisenbacher.de
2. Hazards identification	
2.1 Hazard designation	not applicable - see section 2.2
Information pertaining to particular dangers for man and environment:	This product needs not be labelled due to the calculation procedure of the "EC General Classification Directive for Preparations" in its latest valid version.
User:	Qualified professionals (dental technicians, dentists)
Classification system:	No classification
2.2 Hazard warning:	The following identification <u>is not applicable</u> for the product, but only for dust that might be formed during its use.
	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
2.3 Other hazards in the supply and processing of Glassbeads:	Inhalation of dust, irritation of skin and eyes.
3. Composition/Data on components	
The safety warnings in the sections 4 to 8 and 10 to 12 do not refer to the product itself, but to the dust that is formed when the product is used properly.	
3.1 Chemical composition:	
Glass beads	
Alkali-lime glass	CAS: 65997-17-3 EINECS: 266-046-0
If the product is coated, the percent by weight of the coating substances is less than 1%.	

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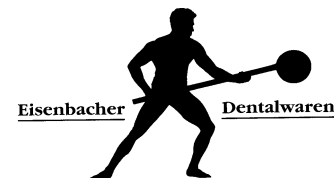
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<b>4. First Aid Measures</b>	
4.1 General information:	No specific action required
4.2 Important acute and delayed symptoms and effects:	none
After inhaling:	The dust can cause temporary discomfort in the upper airways. In this case: Supply fresh air. Get medical attention if irritation persists.
After swallowing:	Rinse mouth thoroughly. Drink plenty of water. No known hazards. In case of persistent discomfort, see a doctor.
After skin contact:	Repeated exposure may cause skin dryness or cracking. Immediately wash with water and soap and rinse thoroughly.
After eye contact:	Rinse eyes under running water and seek medical advice
4.3 Information for the doctor:	In case of any of the above discomfort, consult an internist or ophthalmologist.
<b>5. Fire fighting Measures</b>	
5.1 Suitable extinguishing aids:	The glass beads are not flammable and not explosive.
5.2 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	none
5.3 Protective equipment:	none
<b>6. Accidental release measures</b>	
6.1 Person-related Safety precautions:	Avoid spilling the product on the floor in warehouse and production areas this could lead to slip hazards.
6.2 Measures for Environmental protection:	Dispose of any rests in an environmentally sound manner (in accordance with the national legal regulations).
6.3 Measures for cleaning/collecting:	For removing the product, commercially available cleaning devices (broom, dustpan) can be used; avoid the formation of dust. Do not use compressed air, do not blow off.
6.4 Reference to other sections:	See sections 4 and following.

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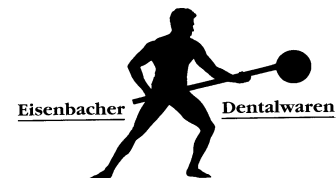
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7. Handling and storage	
7.1 Information for safe handling:	The product does not induce any specific health hazards. However, we recommend transporting and handling the product at room temperature in order to guarantee its quality and stability. There is no risk of an electrostatic discharge.
7.2 Conditions for safe storage, including intolerances:  Common storage notes:	Keep the product in closed bags, keep it dry; if possible in a well-ventilated area. Avoid great temperature differences, since this might lead to clogging in the bags. The delivery unit must be secured against skidding, tilting, rolling and falling.  Not required
Further information about storage conditions:	Store in a dry place; if possible at room temperature
Storage class:  Classification according to Ordinal on Industrial Safety and Health:  7.3 Specific end uses:	not applicable  not applicable  none
8. Exposure controls and personal protection	
8.1 To be monitored parameter:	If it is not possible to prevent an exposure to the product with an appropriate ventilation of the workplace, and if the concentrations are less than or equal to 10 times the TWA limit, we recommend an FFP2 breathing dust mask.  If the concentrations are less than or equal to 25 times the TWA limit, we recommend an FFP3 breathing dust mask, a helmet or a hood with eye slots; supply fresh air.
8.2 Limiting and monitoring exposure:	TLV TWA: 10 mg/m <sup>3</sup> . Value for fine dust without asbestos and <1% crystalline silcon, inhaled particles  TLV TWA: 3 mg/m <sup>3</sup> . Value for fine dust without asbestos and <1% crystalline silcon, inhaled particles
<b>Personal protective equipment:</b>	<b>Wear safety shoes.</b> <b>Respiratory protection:</b> FFP2 or FFP3 mask; see section 8.1 <b>Protective gloves:</b> Minimum layer thickness / gloves = 0.4 mm In case of a longer and more frequent contactm protection index 6 is recommended, corresponding to more than 480 min. permeation time in accordance to EN 374. Minimum layer thickness / gloves = 0.7 mm <b>Material of gloves:</b> - Butyl rubber - Fluorinated rubber (Viton) - Nitrile-butadiene rubber - Natural rubber (latex) - Chloroprene rubber - Gloves made of Neoprene <b>Breakthrough time of the glove material:</b> Consult the protective glove manufacturer for the exact breakthrough time which has to be observed. <b>Eye protection:</b> Protective goggles (DIN 58211, EN 166) <b>Body protection:</b>

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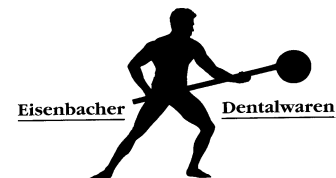
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<b>General protection and hygiene measures:</b>	<p>Helmet or a hood with eye slots; see section 8.1</p> <p>Do not eat, drink or smoke during use. Wash hands before breaks and after finishing work. Avoid contact with eyes and skin. Do not inhale the dust.</p>
<b>9. Physical and chemical properties</b>	
9.1 Information on basic physical and chemical properties:	<p><b>Softening point:</b> at about 650°C</p> <p><b>Melting point:</b> &gt;1350°C</p> <p><b>Absolute density:</b> 2.5g/cm<sup>3</sup></p> <p><b>Bulk density:</b> between 1.0 and 1.8 g/cm<sup>3</sup>, depending on the particle size distribution of the product.</p> <p><b>Solubility:</b> Glass beads are insoluble, except in hydrofluoric acid.</p>
9.2 Other information:	<p><b>Form:</b> Powder, solid at 20°C</p> <p><b>Colour product-specific:</b> white powder</p> <p><b>Odour:</b> odourless</p> <p><b>Solubility in / miscibility with water:</b> insoluble</p> <p><b>Flammability:</b> non-inflammable</p>
<b>10. Stability and reactivity</b>	
10.1 Reactivity:	At about 650° the powder begins to soften, without decomposing
10.2 Chemical stability:	The glass beads are chemically stable under normal conditions.
10.3 Possibility of hazardous reactions:	Not applicable
10.4 Conditions to avoid:	Not applicable
10.5 Incompatible materials:	Not applicable
10.6 Hazardous decomposition products	No hazardous decomposition products known.
<b>11. Toxicological information</b>	
11.1 Information on Toxicological effects:	<p><b>Inhalation:</b> According to experience, the inhalation of high dust concentrations can cause a temporary irritation of the upper airways.</p> <p><b>Ingestion:</b> no impairment</p> <p><b>Skin contact:</b> Repeated exposure may cause skin dryness or cracking.</p> <p><b>Eye contact:</b> High dust concentrations can cause irritations.</p> <p>The International Agency for Research on Cancer (IARC) and the American Conference of Governmental Industrial Hygienists (ACGIH) classify the product as non-carcinogenic.</p>
<b>12. Ecological information</b>	
12.1 Acute toxicity:	No results known from animal testing.
12.2 Persistence and degradability:	Not known

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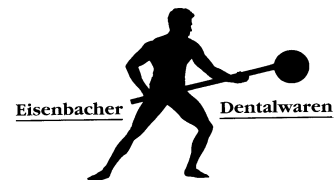
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12.3 Bioaccumulative potential:	Not applicable
12.4 Mobility in soil	Not known
12.5 Results of the PBT and vPvB assessment	Not known
12.6 Other adverse effects	The product is not water-soluble and does not have any impact in the environment.
<b>13. Disposal considerations</b>	
13.1 Waste treatment methods:	Disposal of the product with commercially available cleaning equipment in accordance with the national legal regulations.
<b>14. Transport information</b>	
14.1 UN number:	-
14.2 UN proper shipping name.	Not applicable
14.3 Transport hazard classes:	Glass beads are no hazardous material in sense of the transport regulations: <ul style="list-style-type: none"> <li>- Transport by land by road or railway RTMDR/F, ADR/RID, not classified</li> <li>- Transport by water on vessel IMDG not classified</li> <li>- Inland water transport ADNR, not classified</li> <li>- Air transport ICAO-TI, not classified</li> </ul>
14.4 Packing group:	Not applicable
14.5 Environmental hazards:	See section 13
14.6 Special precautions:	No specific precaution required
14.7 Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC code:	see section 14.3
<b>15. Regulations</b>	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	<p><b>Labelling according to EC Directives:</b> According to the EU Directives and the German Ordinance on Hazardous Substances, the product is not subject to labelling. Nevertheless, this safety data sheet does not release the user from national or regional regulations.</p> <p>The usual precaution measures when handling chemicals must be observed (see section 6.1).</p> <p><b>Classification according to the German Operational Safety Regulation (BetrSichV):</b> Not applicable</p> <p><b>Code letter(s) and hazard description(s) of the product:</b> Not applicable</p> <p><b>Hazard-determining components of labelling:</b> Not applicable</p>
15.2 Chemical safety assessment:	not applicable
<b>16. Other information</b>	
The information is based on our present state of knowledge, they do not constitute a guarantee of product properties and do not establish a contractual relationship. However, Eisenbacher Dentalwaren ED GmbH does not assume any explicit or implicit guarantee or warranty as to the correctness, reliability or completeness of the information. Eisenbacher Dentalwaren ED GmbH advises any person receiving this information, not to use the product for any other use than the intended use described in section 1.2.	

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<p>The user shall be responsible for complying with all the necessary legal regulations.          The product must be used by qualified and trained dental technicians, who are aware of the correct use and can be held responsible in case of improper use.</p>	
<p>Relevant H- and P-phrases.</p>	<p>H304 May be fatal if swallowed and enters airways.          H315 Causes skin irritation          H334 May cause allergy or asthma symptoms or cause breathing difficulties.          P260 Do not inhale dust          P281 Use personal protective equipment as required          P285 In case of inadequate ventilation wear respiratory protection</p>
<p>Abbreviations and Terms</p>	<p>ACGIH: American Conference of Governmental Industrial Hygienists          ADNDR: Regulations for the Transport of Dangerous Goods on the Rhine (ADNR)          ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)          CAS: Chemical Abstracts Service (division of the American Chemical Society)          CLP: Classification Labelling Packaging          EINECS: European Inventory of Existing Commercial Chemical Substances          GHS: Globally Harmonized System          H-phrase: Hazard statement          IARC: International Agency for Research on Cancer          IATA: International Air Transport Association          IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)          ICAO: International Civil Aviation Organization          ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)          IMDG: International Maritime Code for Dangerous Goods          LC50: Lethal concentration, 50 percent          LD50: Lethal dose, 50 percent          P-phrase: Precautionary statement          PBT: Provider Backbone Transport          RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)          TLV-TWA: Time-weighted average based on an admissible exposure, averaged over a regular 8-hours working day          vPvB: very persistent very bioaccumulating</p>